

Low voltage fuse links and fuse holders Catalog

# BUSSMANN SERIES



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*Powering Business Worldwide*



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At Eaton, we believe that power is a fundamental part of just about everything people do. That's why we're dedicated to helping our customers find new ways to manage electrical, hydraulic and mechanical power more efficiently, safely and sustainably. To improve people's lives, the communities where we live and work, and the planet our future generations depend upon. Because this is what really matters. And we're here to make sure it works.

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**EATON**

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Eaton is the leading source of fusible circuit protection solutions in the global marketplace. Eaton's Bussmann series products are approved for use around the world and meet agency requirements and international standards: IEC, VDE, DIN, UL, CSA, BS and others.

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Eaton manufactures over 50,000 Bussmann series part numbers covering extensive fusible circuit protection solutions for a wide range of applications: residential, industrial, motor protection, power conversion and distribution.

Eaton has been a leading exponent in the design, development and manufacture of low voltage fuse links and their associated accessories for more than 100 years and has supplied fuse links to more than 90 countries worldwide.

Eaton's team of specialist Engineers and Field Applications Engineers plays a leading role in international standardisation of low voltage fuse links offering comprehensive advice on selection and applications.

With a continual commitment to meet our customers' needs with innovative high quality products with ISO 902 'approval systems', Eaton is the supplier of choice for circuit protection solutions.

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# Industrial and motor applications to BSS88 - Standard

## Offset bolted tags fuse links

### Offset bolted tags fuse links

#### Specifications

##### Description

Fuse links for general industrial applications with Q1 fusing factor, general purpose (gG) and motor protection (gM) characteristics for general industrial and motor applications.

##### Technical data

Rated voltage:

- gG: up to 550 V a.c. see tables for details
- gM: up to 500 V a.c. see tables for details

Rated current: 2 to 200 A, see tables for details

Breaking capacity: 80 kA up to 550 V a.c. see tables for details

##### Standard/agency information

Meets BS88 Part 1 and 2, IEC 60269 parts 1 and 2

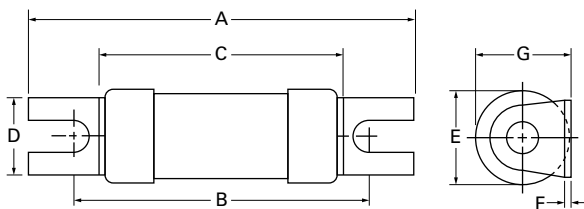
##### Product selection

NITD, class gG, 550 V a.c., 2 to 32 A - class gM, 415 V a.c., 20 to 32 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS Reference | Fixing centre (mm) | Pack quantity | Compatible fuse holders                              |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------------------------------------|
| NITD2           | 550 V a.c.    | 2                    | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            | CM32FC<br>Camaster range<br><br>RS20H Red Spot range |
| NITD4           | 550 V a.c.    | 4                    | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                                                      |
| NITD6           | 550 V a.c.    | 6                    | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                                                      |
| NITD10          | 550 V a.c.    | 10                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                                                      |
| NITD16          | 550 V a.c.    | 16                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                                                      |
| NITD20          | 550 V a.c.    | 20                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                                                      |
| NITD25          | 550 V a.c.    | 25                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            | CM32FC<br>Camaster range                             |
| NITD32          | 550 V a.c.    | 32                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                                                      |
| NITD20M25       | 415 V a.c.    | 20M25                | 80 kA at 415 V a.c. | gM              | A1           | 44                 | 20            |                                                      |
| NITD20M32       | 415 V a.c.    | 20M32                | 80 kA at 415 V a.c. | gM              | A1           | 44                 | 20            |                                                      |
| NITD32M40       | 415 V a.c.    | 32M40                | 80 kA at 415 V a.c. | gM              | A1           | 44                 | 20            |                                                      |
| NITD32M50       | 415 V a.c.    | 32M50                | 80 kA at 415 V a.c. | gM              | A1           | 44                 | 20            |                                                      |
| NITD32M63       | 415 V a.c.    | 32M63                | 80 kA at 415 V a.c. | gM              | A1           | 44                 | 20            |                                                      |

##### Dimensions - mm



| Catalog numbers           | A  | B  | C    | D    | E    | F   | G    |
|---------------------------|----|----|------|------|------|-----|------|
| NITD2-32 and NITD20M25-32 | 55 | 44 | 34.6 | 11.2 | 13.8 | 0.8 | 14   |
| NITD32M40-63              | 55 | 44 | 35.6 | 11.2 | 17.5 | 1.2 | 18.5 |

[Data sheet: 4106](#)

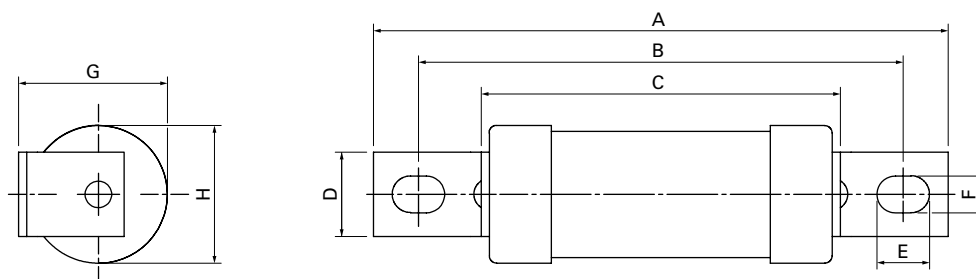
## Offset bolted tags fuse links

### AAO, class gG, 550 V a.c., 2 to 32 A - class gM, 500 V a.c., 32 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS Reference | Fixing centre (mm) | Pack quantity | Compatible fuse holders |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|-------------------------|
| AA02            | 550 V a.c.    | 2                    | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            | CM32F<br>Camaster range |
| AA04            | 550 V a.c.    | 4                    | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            |                         |
| AA06            | 550 V a.c.    | 6                    | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            | RS32 Red Spot<br>range  |
| AA010           | 550 V a.c.    | 10                   | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            |                         |
| AA016           | 550 V a.c.    | 16                   | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            |                         |
| AA020           | 550 V a.c.    | 20                   | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            |                         |
| AA025           | 550 V a.c.    | 25                   | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            |                         |
| AA032           | 550 V a.c.    | 32                   | 80 kA at 550 V a.c. | gG              | A2           | 73                 | 20            |                         |
| AA032M40        | 500 V a.c.    | 32M40                | 80 kA at 500 V a.c. | gM              | A2           | 73                 | 20            |                         |
| AA032M50        | 500 V a.c.    | 32M50                | 80 kA at 500 V a.c. | gM              | A2           | 73                 | 20            |                         |
| AA032M63        | 500 V a.c.    | 32M63                | 80 kA at 500 V a.c. | gM              | A2           | 73                 | 20            |                         |

### Dimensions - mm



| Catalog numbers | A  | B    | C    | D   | E | F   | G    | H    |
|-----------------|----|------|------|-----|---|-----|------|------|
| AA02-32         | 85 | 73   | 35.5 | 8.7 | 8 | 5.5 | 14   | 13.7 |
| AA032M40-63     | 85 | 73.5 | 54.5 | 8.7 | 8 | 5.5 | 22.3 | 21   |

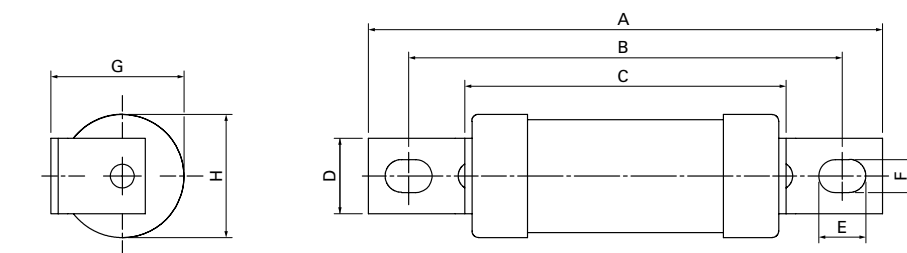
[Data sheet: 4109](#)

### BAO, class gG, 500 V a.c., 40 to 63 A - class gM, 500 V a.c., 63 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS Reference | Fixing centre (mm) | Pack quantity | Compatible fuse holders |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|-------------------------|
| BA040           | 500 V a.c.    | 40                   | 80 kA at 500 V a.c. | gG              | A3           | 73                 | 20            | CM63F<br>Camaster range |
| BA050           | 500 V a.c.    | 50                   | 80 kA at 500 V a.c. | gG              | A3           | 73                 | 20            |                         |
| BA063           | 500 V a.c.    | 63                   | 80 kA at 500 V a.c. | gG              | A3           | 73                 | 20            | RS63 Red Spot<br>range  |
| BA063M80        | 500 V a.c.    | 63M80                | 80 kA at 500 V a.c. | gM              | A3           | 73                 | 20            |                         |
| BA063M100       | 500 V a.c.    | 63M100               | 80 kA at 500 V a.c. | gM              | A3           | 73                 | 20            |                         |

### Dimensions - mm



| Catalog numbers           | A  | B    | C    | D    | E | F   | G    | H  |
|---------------------------|----|------|------|------|---|-----|------|----|
| BA040-63 and BA063M80-100 | 87 | 73.5 | 54.5 | 12.7 | 8 | 5.5 | 22.3 | 21 |

[Data sheet: 4112](#)

# Industrial and motor applications to BS88 - Standard

Offset bolted tags fuse links

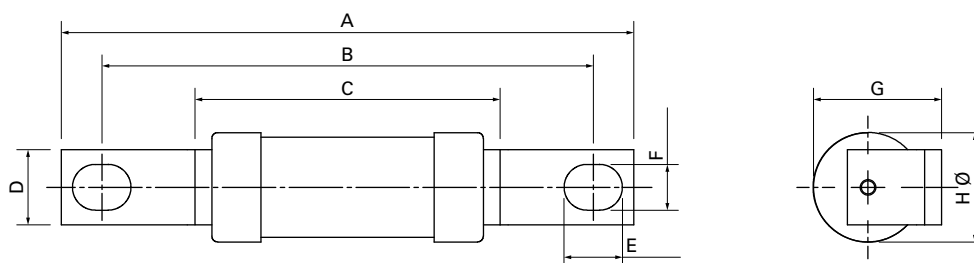
## Offset bolted tags fuse links

CEO, class gG, 500 V a.c., 32 to 100 A - class gM, 415 V a.c., 100 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS Reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| CEO32           | 500 V a.c.    | 32                   | 80 kA at 500 V a.c. | gG              | A4           | 94                 | 10            | RS100 Red Spot range   |
| CEO40           | 500 V a.c.    | 40                   | 80 kA at 500 V a.c. | gG              | A4           | 94                 | 10            |                        |
| CEO50           | 500 V a.c.    | 50                   | 80 kA at 500 V a.c. | gG              | A4           | 94                 | 10            |                        |
| CEO63           | 500 V a.c.    | 63                   | 80 kA at 500 V a.c. | gG              | A4           | 94                 | 10            |                        |
| CEO80           | 500 V a.c.    | 80                   | 80 kA at 500 V a.c. | gG              | A4           | 94                 | 10            |                        |
| CEO100          | 500 V a.c.    | 100                  | 80 kA at 500 V a.c. | gG              | A4           | 94                 | 10            |                        |
| CEO100M125      | 415 V a.c.    | 100M125              | 80 kA at 415 V a.c. | gM              | A4           | 94                 | 10            |                        |
| CEO100M160      | 415 V a.c.    | 100M160              | 80 kA at 415 V a.c. | gM              | A4           | 94                 | 10            |                        |
| CEO100M200      | 415 V a.c.    | 100M200              | 80 kA at 415 V a.c. | gM              | A4           | 94                 | 10            |                        |

### Dimensions - mm



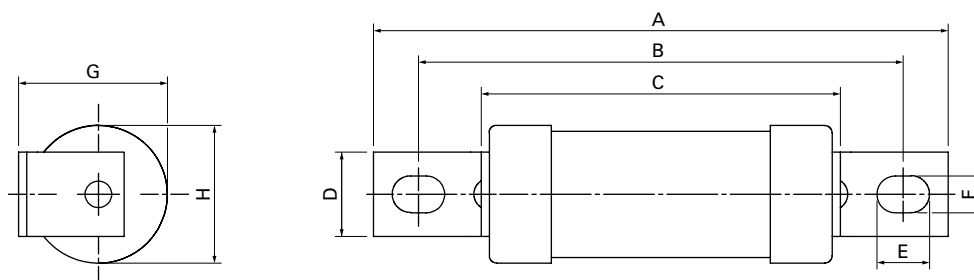
| Catalog numbers | A     | B  | C    | D    | E  | F   | G    | H    |
|-----------------|-------|----|------|------|----|-----|------|------|
| CEO32-100       | 109.5 | 94 | 58.5 | 14.3 | 11 | 8.7 | 24.5 | 21   |
| CEO100M125-160  | 109   | 94 | 58   | 14.3 | 11 | 8.7 | 26.8 | 25.8 |
| CEO100M200      | 110   | 94 | 47   | 19   | 10 | 9   | 29.5 | 31   |

OSD, class gG, 500 V a.c., 80 and 100 A - class gM, 415 V a.c., 100 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| OSD80           | 500 V a.c.    | 80                   | 80 kA at 500 V a.c. | gG              | 73                 | 20            | CM100F Camaster range  |
| OSD100          | 500 V a.c.    | 100                  | 80 kA at 500 V a.c. | gG              | 73                 | 20            |                        |
| OSD100M125      | 415 V a.c.    | 100M125              | 80 kA at 415 V a.c. | gM              | 73                 | 20            |                        |
| OSD100M160      | 415 V a.c.    | 100M160              | 80 kA at 415 V a.c. | gM              | 73                 | 20            |                        |

### Dimensions - mm



| Catalog numbers | A    | B  | C    | D    | E   | F   | G    | H    |
|-----------------|------|----|------|------|-----|-----|------|------|
| OSD80-100       | 95   | 73 | 54.5 | 12.7 | 7.8 | 5.5 | 22.3 | 21   |
| OSD100M125-160  | 94.5 | 73 | 54   | 12.7 | 7.8 | 5.5 | 24.7 | 25.7 |

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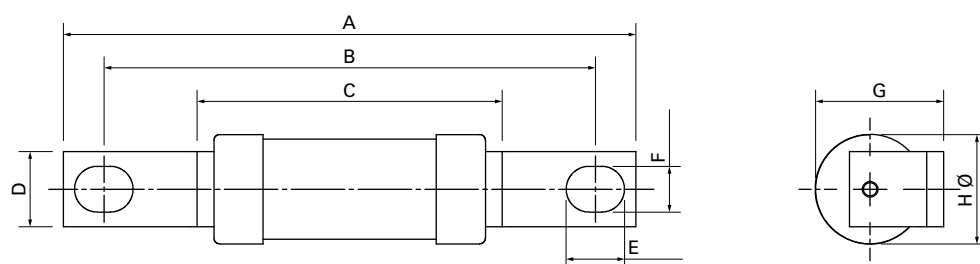
### Offset bolted tags fuse links

DEO, class gG, 415 V a.c., 125 to 200 A - class gM, 415 V a.c., 200 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|
| DEO125          | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gG              | 94                 | 5             |
| DEO160          | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gG              | 94                 | 5             |
| DEO200          | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gG              | 94                 | 5             |
| DEO200M315      | 415 V a.c.    | 200M315              | 80 kA at 415 V a.c. | gM              | 94                 | 5             |

#### Dimensions - mm



| Catalog numbers           | A   | B  | C  | D  | E  | F | G    | H  |
|---------------------------|-----|----|----|----|----|---|------|----|
| DEO125-200 and DEO200M315 | 110 | 94 | 47 | 19 | 10 | 9 | 29.5 | 31 |

[Data sheet: 4117](#)

# Industrial and motor applications to BSS88 - Standard

## Centre bolted tags fuse links

### Centre bolted tags fuse links

#### Specifications

##### Description

Fuse links for general industrial applications with Q1 fusing factor, general purpose (gG) and motor protection (gM) characteristics for general industrial and motor applications.

##### Technical data

Rated voltage:

- gG: up to 690 V a.c. / 400 V d.c. see tables for details
- gM: up to 550 V a.c./250 V d.c. see tables for details

Consult Eaton's Bussmann business for max time constant data [buletechnical@eaton.com](mailto:buletechnical@eaton.com)

Rated current: 2 to 1250 A, see tables for details

Breaking capacity: up to 80 kA see tables for details

##### Standard/agency information

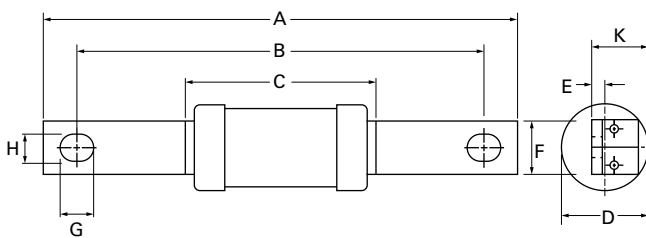
Meets BS88 Part 1 and 2, IEC 60269 parts 1 and 2, in accordance with RoHS 2011/65/IEC.

##### Product selection

#### AC, class gG, 500 / 550 V a.c and 250 V d.c., 2 to 32 A

| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| AC2             | 550 V a.c. / 250 V d.c. | 2                    | 80 kA at 550 V a.c. | gG              | 97                 | 20            |
| AC4             | 550 V a.c. / 250 V d.c. | 4                    | 80 kA at 550 V a.c. | gG              | 97                 | 20            |
| AC6             | 550 V a.c. / 250 V d.c. | 6                    | 80 kA at 550 V a.c. | gG              | 97                 | 20            |
| AC10            | 550 V a.c. / 250 V d.c. | 10                   | 80 kA at 550 V a.c. | gG              | 97                 | 20            |
| AC16            | 550 V a.c. / 250 V d.c. | 16                   | 80 kA at 550 V a.c. | gG              | 97                 | 20            |
| AC20            | 550 V a.c. / 250 V d.c. | 20                   | 80 kA at 550 V a.c. | gG              | 97                 | 20            |
| AC25            | 500 V a.c. / 250 V d.c. | 25                   | 80 kA at 500 V a.c. | gG              | 97                 | 20            |
| AC32            | 500 V a.c. / 250 V d.c. | 32                   | 80 kA at 500 V a.c. | gG              | 97                 | 20            |

##### Dimensions - mm



| Catalog numbers | A     | B  | C    | D  | E   | F    | G    | H | K    |
|-----------------|-------|----|------|----|-----|------|------|---|------|
| AC2-32          | 113.5 | 97 | 55.5 | 21 | 1.6 | 12.7 | 13.5 | 7 | 11.2 |

[Data sheet: 4110](#)

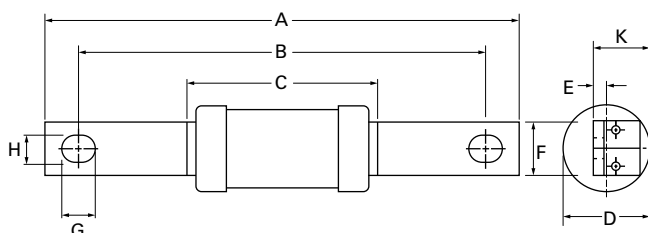
## Centre bolted tags fuse links

BC, class gG, 500 V a.c and 250 V d.c., 40 to 63 A - class gM 500 V a.c. and 250 V d.c. 63 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| BC40            | 500 V a.c. / 250 V d.c. | 40                   | 80 kA at 500 V a.c. | gG              | 97                 | 20            |
| BC50            | 500 V a.c. / 250 V d.c. | 50                   | 80 kA at 500 V a.c. | gG              | 97                 | 20            |
| BC63            | 500 V a.c. / 250 V d.c. | 63                   | 80 kA at 500 V a.c. | gG              | 97                 | 20            |
| BC63M80         | 500 V a.c. / 250 V d.c. | 63M80                | 80 kA at 500 V a.c. | gM              | 97                 | 20            |
| BC63M100        | 500 V a.c. / 250 V d.c. | 63M100               | 80 kA at 500 V a.c. | gM              | 97                 | 20            |

### Dimensions - mm



| Catalog numbers         | A     | B  | C  | D  | E   | F | G    | H    | K    |
|-------------------------|-------|----|----|----|-----|---|------|------|------|
| BC40-63 and BC63M80-100 | 113.5 | 97 | 55 | 21 | 1.6 | 7 | 13.5 | 12.7 | 11.2 |

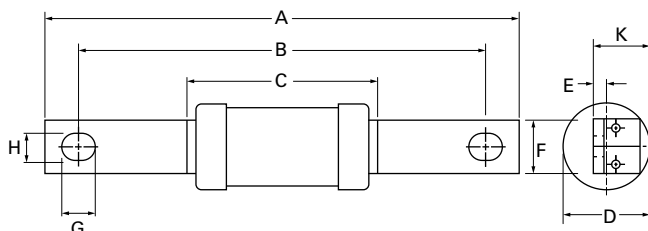
[Data sheet: 4113](#)

AD, class gG, 500 / 550 V a.c and 250 V d.c., 2 to 32 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| AD2             | 550 V a.c. / 250 V d.c. | 2                    | 80 kA at 550 V a.c. | gG              | 111                | 20            | RS200 Red Spot range   |
| AD4             | 550 V a.c. / 250 V d.c. | 4                    | 80 kA at 550 V a.c. | gG              | 111                | 20            |                        |
| AD6             | 550 V a.c. / 250 V d.c. | 6                    | 80 kA at 550 V a.c. | gG              | 111                | 20            |                        |
| AD10            | 550 V a.c. / 250 V d.c. | 10                   | 80 kA at 550 V a.c. | gG              | 111                | 20            |                        |
| AD16            | 550 V a.c. / 250 V d.c. | 16                   | 80 kA at 550 V a.c. | gG              | 111                | 20            |                        |
| AD20            | 550 V a.c. / 250 V d.c. | 20                   | 80 kA at 550 V a.c. | gG              | 111                | 20            |                        |
| AD25            | 500 V a.c. / 250 V d.c. | 25                   | 80 kA at 500 V a.c. | gG              | 111                | 20            |                        |
| AD32            | 500 V a.c. / 250 V d.c. | 32                   | 80 kA at 500 V a.c. | gG              | 111                | 20            |                        |

### Dimensions - mm



| Catalog numbers | A     | B   | C  | D  | E   | F    | G    | H   | K    |
|-----------------|-------|-----|----|----|-----|------|------|-----|------|
| AD2-32          | 128.5 | 111 | 55 | 21 | 1.4 | 14.2 | 11.8 | 8.7 | 11.2 |

[Data sheet: 4111](#)

# Industrial and motor applications to BS88 - Standard

## Centre bolted tags fuse links

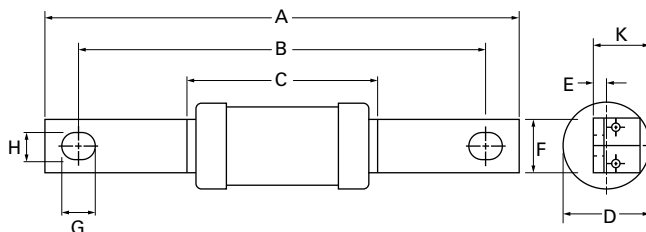
### Centre bolted tags fuse links

#### BD, class gG, 500 V a.c and 250 V d.c., 40 to 63 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| BD40            | 500 V a.c. / 250 V d.c. | 40                   | 80 kA at 500 V a.c. | gG              | 111                | 20            | RS200 Red Spot range   |
| BD50            | 500 V a.c. / 250 V d.c. | 50                   | 80 kA at 500 V a.c. | gG              | 111                | 20            |                        |
| BD63            | 500 V a.c. / 250 V d.c. | 63                   | 80 kA at 500 V a.c. | gG              | 111                | 20            |                        |

#### Dimensions - mm



| Catalog numbers | A     | B   | C  | D  | E   | F    | G    | H   | K    |
|-----------------|-------|-----|----|----|-----|------|------|-----|------|
| BD40-63         | 128.5 | 111 | 55 | 21 | 1.4 | 14.2 | 11.8 | 8.7 | 11.2 |

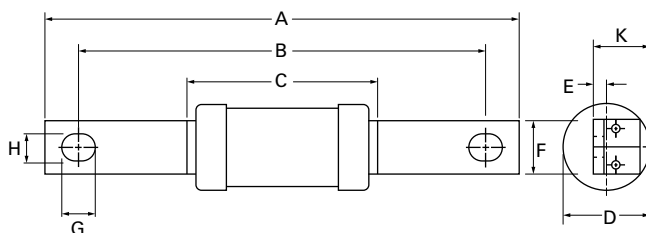
[Data sheet: 4114](#)

#### CD, class gG, 500 V a.c, 80 and 100 A, class gM, 415 V a.c., 100 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| CD80            | 500 V a.c.    | 80                   | 80 kA at 500 V a.c. | gG              | B1           | 111                | 10            | RS200 Red Spot range   |
| CD100           | 500 V a.c.    | 100                  | 80 kA at 500 V a.c. | gG              | B1           | 111                | 10            |                        |
| CD100M125       | 415 V a.c.    | 100M125              | 80 kA at 415 V a.c. | gM              | B1           | 111                | 10            |                        |
| CD100M160       | 415 V a.c.    | 100M160              | 80 kA at 415 V a.c. | gM              | B1           | 111                | 10            |                        |
| CD100M200       | 415 V a.c.    | 100M200              | 80 kA at 415 V a.c. | gM              | B1           | 111                | 5             |                        |

#### Dimensions - mm



| Catalog numbers | A   | B   | C    | D  | E   | F    | G    | H   | K    |
|-----------------|-----|-----|------|----|-----|------|------|-----|------|
| CD80-100        | 126 | 111 | 58.5 | 21 | 3.2 | 14.3 | 11.1 | 8.7 | 19.5 |
| CD100M125-160   | 126 | 111 | 58.5 | 26 | 3.2 | 14.3 | 11.1 | 8.7 | 22   |
| CD100M200       | 136 | 111 | 47   | 31 | 3.2 | 19   | 12.5 | 8.7 | 22.5 |

[Data sheet: 4116](#)

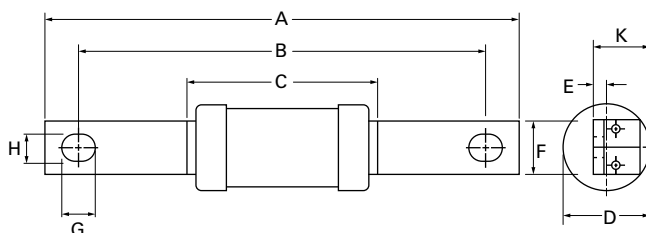
## Centre bolted tags fuse links

DD, class gG, 415 V a.c, 125 to 200 A, class gM, 415 V a.c., 200 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| DD125           | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gG              | B2           | 111                | 5             | RS200 Red Spot range   |
| DD160           | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gG              | B2           | 111                | 5             |                        |
| DD200           | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gG              | B2           | 111                | 5             |                        |
| DD200M250       | 415 V a.c.    | 200M250              | 80 kA at 415 V a.c. | gM              | B2           | 111                | 5             |                        |
| DD200M315       | 415 V a.c.    | 200M315              | 80 kA at 415 V a.c. | gM              | B2           | 111                | 5             |                        |

### Dimensions - mm



| Catalog numbers             | A   | B   | C  | D  | E   | F  | G    | H | K    |
|-----------------------------|-----|-----|----|----|-----|----|------|---|------|
| DD125-200 and DD200M250-315 | 136 | 111 | 47 | 31 | 3.2 | 19 | 12.5 | 9 | 22.5 |

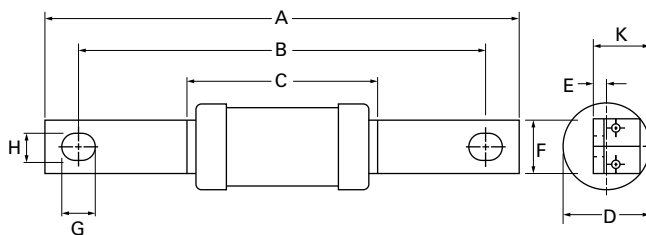
[Data sheet: 4118](#)

ED, class gG, 415 V a.c, 250 to 400 A, class gM, 415 V a.c., 315 and 400 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| ED250           | 415 V a.c.    | 250                  | 80 kA at 415 V a.c. | gG              | B3/B4        | 111                | 1             |
| ED315           | 415 V a.c.    | 315                  | 80 kA at 415 V a.c. | gG              | B3/B4        | 111                | 1             |
| ED355           | 415 V a.c.    | 355                  | 80 kA at 415 V a.c. | gG              | B3/B4        | 111                | 1             |
| ED400           | 415 V a.c.    | 400                  | 80 kA at 415 V a.c. | gG              | B3/B4        | 111                | 1             |
| ED315M400       | 415 V a.c.    | 315M400              | 80 kA at 415 V a.c. | gM              | B3/B4        | 111                | 1             |
| ED400M500       | 415 V a.c.    | 400M500              | 80 kA at 415 V a.c. | gM              | B3/B4        | 111                | 1             |

### Dimensions - mm



| Catalog numbers        | A   | B   | C  | D  | E   | F    | G    | H | K    |
|------------------------|-----|-----|----|----|-----|------|------|---|------|
| ED250                  | 136 | 111 | 47 | 31 | 4.7 | 19   | 12.5 | 9 | 22.5 |
| ED315-400 to ED315M400 | 136 | 111 | 50 | 38 | 4.7 | 25.4 | 12.5 | 9 | 31   |
| ED400M500              | 136 | 114 | 75 | 59 | 4.7 | 25.4 | 12.5 | 9 | 31   |

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# Industrial and motor applications to BS88 - Standard

Centre bolted tags fuse links

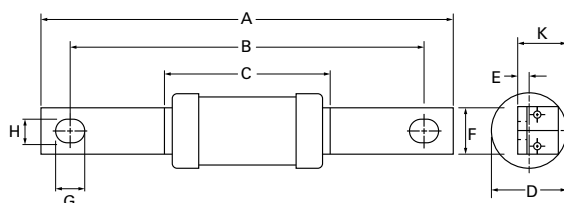
## Centre bolted tags fuse links

EFS, class gG, 415 V a.c, 125 to 315 A

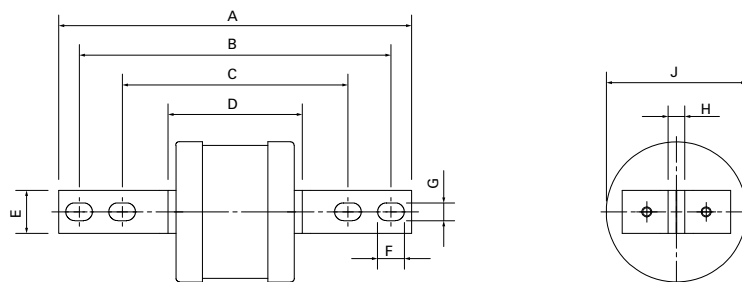


| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| EFS125          | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gG              | 133                | 1             | RS400 Red Spot range   |
| EFS160          | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gG              | 133                | 1             |                        |
| EFS200          | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gG              | 133                | 1             |                        |
| EFS250          | 415 V a.c.    | 250                  | 80 kA at 415 V a.c. | gG              | 133                | 1             |                        |
| EFS315          | 415 V a.c.    | 315                  | 80 kA at 415 V a.c. | gG              | 133 / 184          | 1             |                        |

### Dimensions - mm



| Catalog numbers | A   | B   | C  | D  | E   | F  | G    | H    | K    |
|-----------------|-----|-----|----|----|-----|----|------|------|------|
| EFS125-250      | 158 | 133 | 47 | 31 | 3.2 | 19 | 12.5 | 10.5 | 22.5 |



| Catalog numbers | A   | B   | C   | D  | E    | F    | G    | H   | J  |
|-----------------|-----|-----|-----|----|------|------|------|-----|----|
| EFS315          | 209 | 184 | 133 | 50 | 25.4 | 12.5 | 10.5 | 4.7 | 38 |

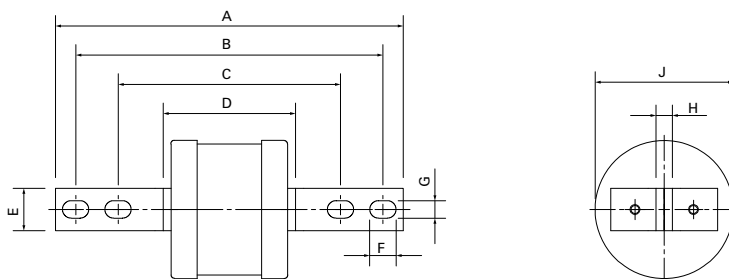
[Data sheet: 4121](#)

EF, class gG, 415 V a.c, 355 and 400 A - class gM, 550 V a.c., 400 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| EF355           | 415 V a.c.    | 355                  | 80 kA at 415 V a.c. | gG              | C1           | 133/184            | 1             | RS400 Red Spot range   |
| EF400           | 415 V a.c.    | 400                  | 80 kA at 415 V a.c. | gG              | C1           | 133/184            | 1             |                        |
| EF400M500       | 550 V a.c.    | 400M500              | 80 kA at 550 V a.c. | gM              | C1           | 133/184            | 1             |                        |

### Dimensions - mm



| Catalog numbers | A   | B   | C   | D  | E    | F    | G    | H   | J  |
|-----------------|-----|-----|-----|----|------|------|------|-----|----|
| EF355-400       | 209 | 184 | 133 | 50 | 25.4 | 12.5 | 10.5 | 4.7 | 38 |
| EF400M500       | 210 | 184 | 133 | 75 | 25.4 | 15.5 | 10.5 | 4.7 | 59 |

[Data sheet: 4120](#)

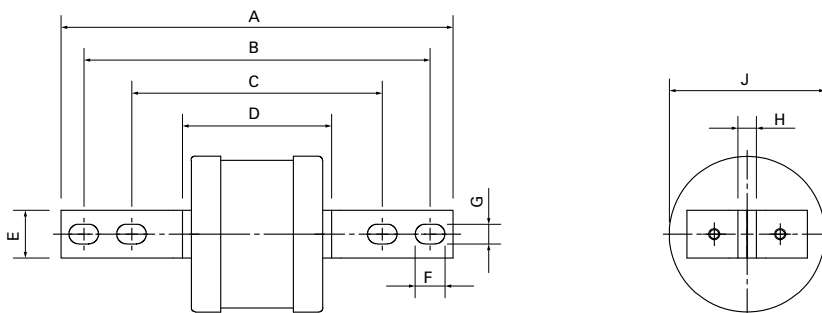
### Centre bolted tags fuse links

FF, class gG, 690 V a.c, 400 V d.c., 450 to 630 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| FF450           | 690 V a.c. / 400 V d.c. | 450                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| FF500           | 690 V a.c. / 400 V d.c. | 500                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| FF560           | 690 V a.c. / 400 V d.c. | 560                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| FF630           | 690 V a.c. / 400 V d.c. | 630                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |

#### Dimensions - mm



| Catalog numbers | A   | B   | C   | D    | E    | F    | G    | H   | J  |
|-----------------|-----|-----|-----|------|------|------|------|-----|----|
| FF450-630       | 210 | 185 | 134 | 77.5 | 25.4 | 15.5 | 10.5 | 6.4 | 74 |

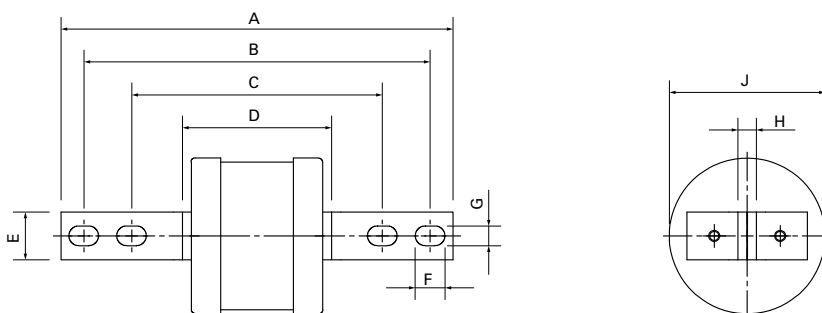
[Data sheet: 4102](#)

GF, class gG, 550 V a.c and 250 V d.c., 710 and 800 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| GF710           | 550 V a.c. / 250 V d.c. | 710                  | 80 kA at 550 V a.c. | gG              | C3           | 133/184            | 1             |
| GF800           | 550 V a.c. / 250 V d.c. | 800                  | 80 kA at 550 V a.c. | gG              | C3           | 133/184            | 1             |

#### Dimensions - mm



| Catalog numbers | A   | B   | C   | D    | E    | F    | G    | H   | J  |
|-----------------|-----|-----|-----|------|------|------|------|-----|----|
| GF710-800       | 210 | 185 | 134 | 80.5 | 25.4 | 15.5 | 10.5 | 9.5 | 83 |

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# Industrial and motor applications to BS88 - Standard

## Centre bolted tags fuse links

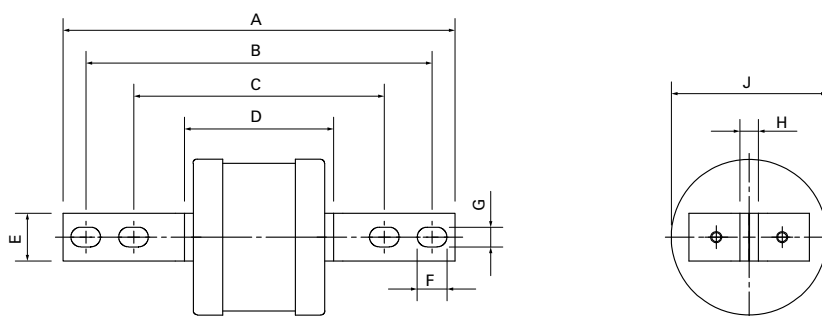
### Centre bolted tags fuse links

#### FG, class gG, 550 V a.c and 400 V d.c., 450 to 630 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| FG450           | 550 V a.c. / 400 V d.c. | 450                  | 80 kA at 550 V a.c. | gG              | 167/231            | 1             |
| FG500           | 550 V a.c. / 400 V d.c. | 500                  | 80 kA at 550 V a.c. | gG              | 167/231            | 1             |
| FG560           | 550 V a.c. / 400 V d.c. | 560                  | 80 kA at 550 V a.c. | gG              | 167/231            | 1             |
| FG630           | 550 V a.c. / 400 V d.c. | 630                  | 80 kA at 550 V a.c. | gG              | 167/231            | 1             |

#### Dimensions - mm



| Catalog numbers | A   | B   | C   | D    | E  | F    | G    | H   | J  |
|-----------------|-----|-----|-----|------|----|------|------|-----|----|
| FG450-630       | 262 | 231 | 167 | 77.5 | 38 | 15.5 | 10.5 | 6.4 | 74 |

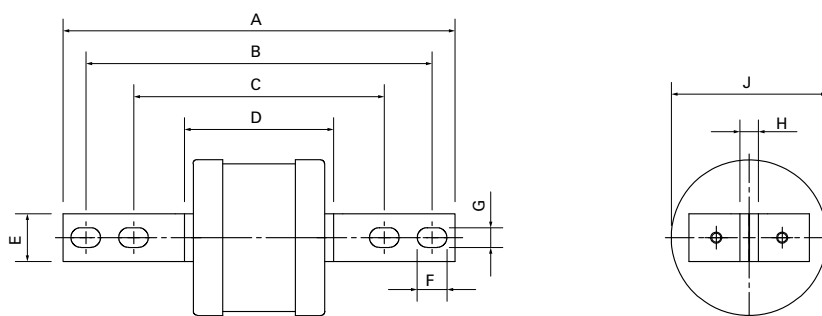
[Data sheet: 4122](#)

#### GG, class gG, 550 V a.c., 710 to 1250 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|
| GG710           | 550 V a.c.    | 710                  | 80 kA at 550 V a.c. | gG              | 165/231            | 1             |
| GG800           | 550 V a.c.    | 800                  | 80 kA at 550 V a.c. | gG              | 165/231            | 1             |
| GG1000          | 550 V a.c.    | 1000                 | 80 kA at 550 V a.c. | gG              | 165/231            | 1             |
| GG1250          | 550 V a.c.    | 1250                 | 80 kA at 550 V a.c. | gG              | 165/231            | 1             |

#### Dimensions - mm



| Catalog numbers | A   | B   | C   | D    | E  | F    | G    | H    | J   |
|-----------------|-----|-----|-----|------|----|------|------|------|-----|
| GG710-800       | 262 | 231 | 167 | 77.5 | 38 | 15.5 | 10.5 | 6.4  | 83  |
| GG1000-1250     | 262 | 231 | 165 | 84   | 38 | 15.5 | 10.5 | 12.7 | 100 |

[Data sheet: 4104](#)

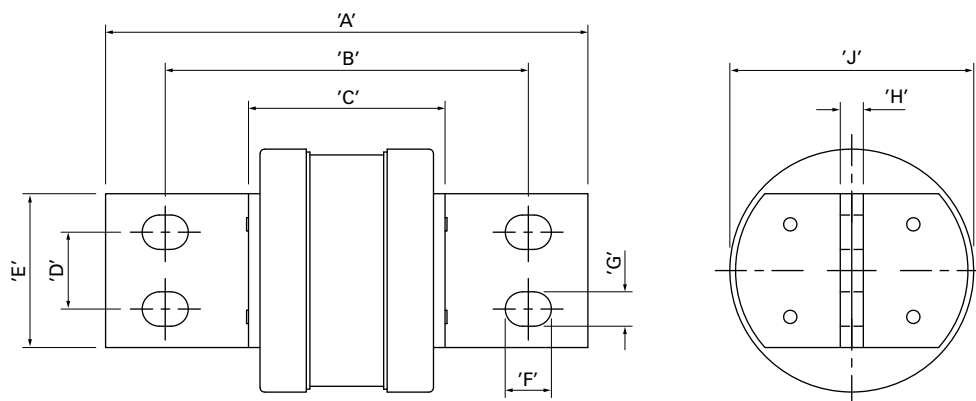
## Centre bolted tags fuse links

GH, class gG, 550 V a.c., 710 to 1250 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| GH710           | 550 V a.c.    | 710                  | 80 kA at 550 V a.c. | gG              | DI           | 149                | 1             |
| GH800           | 550 V a.c.    | 800                  | 80 kA at 550 V a.c. | gG              | DI           | 149                | 1             |
| GH1000          | 550 V a.c.    | 1000                 | 80 kA at 550 V a.c. | gG              | DI           | 149                | 1             |
| GH1250          | 550 V a.c.    | 1250                 | 80 kA at 550 V a.c. | gG              | DI           | 149                | 1             |

### Dimensions - mm



| Catalog numbers | A   | B   | C  | D  | E    | F  | G  | H   | J   |
|-----------------|-----|-----|----|----|------|----|----|-----|-----|
| GH710-800       | 198 | 149 | 81 | 32 | 63.5 | 19 | 14 | 9.5 | 83  |
| GH1000-1250     | 198 | 149 | 81 | 32 | 63.5 | 19 | 14 | 9.5 | 100 |

[Data sheet: 4108](#)

# Industrial and motor applications to BSS88 - Standard

## Offset bladed tags fuse links

### Offset bladed tags fuse links

#### Specifications

##### Description

Fuse links for general industrial applications with Q1 fusing factor, general purpose (gG) and street lighting applications.

##### Technical data

Rated voltage:

- gG: up to 550 V a.c., see tables for details
- gM: 415 V a.c., see tables for details

Rated current: 2 to 125 A

Breaking capacity: up to 80 kA (see tables for ratings)

##### Standard/agency information

Meets BS88 Part 1 and 2, IEC 60269 parts 1 and 2, in accordance with RoHS 2011/65/IEC.

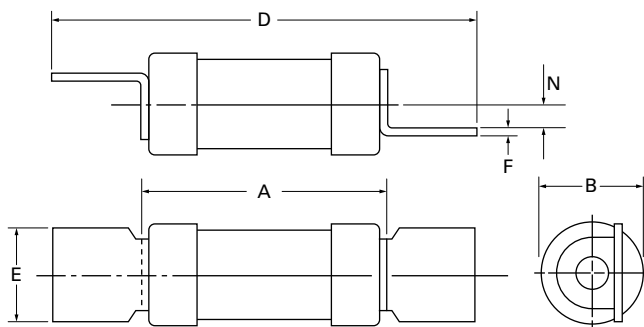
##### Product selection

#### SSD, class gG, 240 V a.c., 2 to 32 A

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|---------------|------------------------|
| SSD2            | 240 V a.c.    | 2                    | 33 kA at 240 V a.c. | gG              | E1           | 20            | SC20 Safeclip range    |
| SSD4            | 240 V a.c.    | 4                    | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |
| SSD6            | 240 V a.c.    | 6                    | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |
| SSD10           | 240 V a.c.    | 10                   | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |
| SSD16           | 240 V a.c.    | 16                   | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |
| SSD20           | 240 V a.c.    | 20                   | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |
| SSD25           | 240 V a.c.    | 25                   | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |
| SSD32           | 240 V a.c.    | 32                   | 33 kA at 240 V a.c. | gG              | E1           | 20            |                        |



#### Dimensions - mm



| Catalog numbers | A  | B  | D  | E  | F   | N   |
|-----------------|----|----|----|----|-----|-----|
| SSD2-32         | 23 | 12 | 47 | 13 | 0.8 | 3.2 |

[Data sheet: 4105](#)

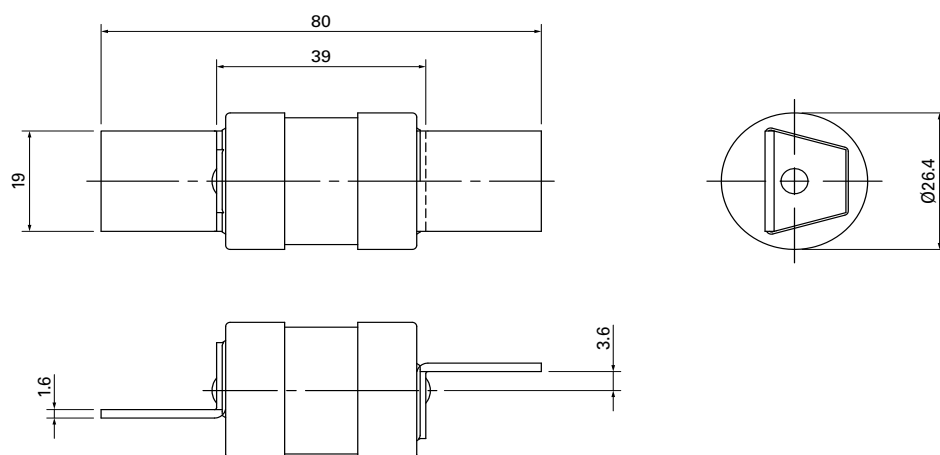
## Offset bladed tags fuse links

### XS, class gG, 440 V a.c, 6 to 100 A, 415 V a.c. 125 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|---------------|------------------------|
| XS6             | 440 V a.c.    | 6                    | 80 kA at 440 V a.c. | gG              | 10            | SC125H-D               |
| XS16            | 440 V a.c.    | 16                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS20            | 440 V a.c.    | 20                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS32            | 440 V a.c.    | 32                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS40            | 440 V a.c.    | 40                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS50            | 440 V a.c.    | 50                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS63            | 440 V a.c.    | 63                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS80            | 440 V a.c.    | 80                   | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS100           | 440 V a.c.    | 100                  | 80 kA at 440 V a.c. | gG              | 10            |                        |
| XS125           | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gG              | 10            |                        |

### Dimensions - mm



### NSD, class gG, 550 V a.c., 2 to 32 A - class gM, 415 V a.c., 20 and 32 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Pack quantity | Compatible fuse holders |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|---------------|-------------------------|
| NSD2            | 550 V a.c.    | 2                    | 80 kA at 550 V a.c. | gG              | F1           | 20            | 32NNS Safeloc range     |
| NSD4            | 550 V a.c.    | 4                    | 80 kA at 550 V a.c. | gG              | F1           | 20            |                         |
| NSD6            | 550 V a.c.    | 6                    | 80 kA at 550 V a.c. | gG              | F1           | 20            | SC32 Safeclip range     |
| NSD10           | 550 V a.c.    | 10                   | 80 kA at 550 V a.c. | gG              | F1           | 20            |                         |
| NSD16           | 550 V a.c.    | 16                   | 80 kA at 550 V a.c. | gG              | F1           | 20            | 32NNS Safeloc range     |
| NSD20           | 550 V a.c.    | 20                   | 80 kA at 550 V a.c. | gG              | F1           | 20            |                         |
| NSD25           | 550 V a.c.    | 25                   | 80 kA at 550 V a.c. | gG              | F1           | 20            |                         |
| NSD32           | 550 V a.c.    | 32                   | 80 kA at 550 V a.c. | gG              | F1           | 20            |                         |
| NSD20M25        | 415 V a.c.    | 20M25                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |
| NSD20M32        | 415 V a.c.    | 20M32                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |
| NSD20M36        | 415 V a.c.    | 20M36                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |
| NSD32M36        | 415 V a.c.    | 32M36                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |
| NSD32M40        | 415 V a.c.    | 32M40                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |
| NSD32M50        | 415 V a.c.    | 32M50                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |
| NSD32M63        | 415 V a.c.    | 32M63                | 80 kA at 415 V a.c. | gM              | F1           | 20            |                         |

[Data sheet: 4100](#)

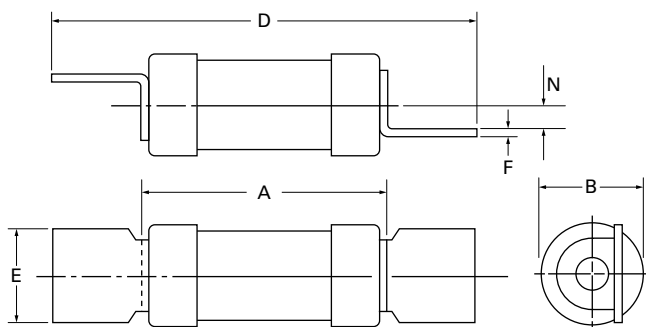
# Industrial and motor applications to BS88 - Standard

## Offset bladed tags fuse links

### Offset bladed tags fuse links

NSD, class gG, 550 V a.c., 2 to 32 A - class gM, 415 V a.c., 20 and 32 A

#### Dimensions - mm



| Catalog numbers         | A    | B    | D    | E    | F   | N   |
|-------------------------|------|------|------|------|-----|-----|
| NSD2-32 and NSD20M25-32 | 34.5 | 13.8 | 59.5 | 12.7 | 0.8 | 3.5 |
| NSD32M36-63             | 34.5 | 17.5 | 58.2 | 12.7 | 0.8 | 3.5 |

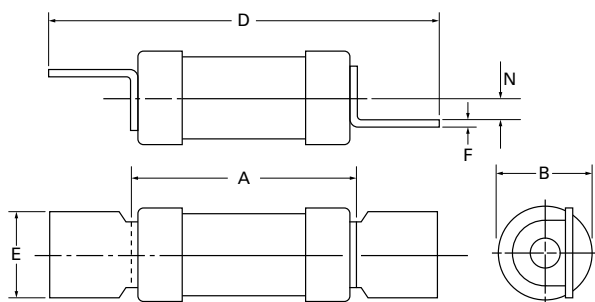
[Data sheet: 4100](#)

ESD, class gG, 415 - 550 V a.c., 2 to 63 A - class gM, 415 V a.c., 63 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Pack quantity | Compatible fuse holders |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------|---------------|-------------------------|
| ESD2            | 550 V a.c.    | 2                    | 80 kA at 550 V a.c. | gG              | F2           | 20            | 63ENS Safeloc range     |
| ESD4            | 550 V a.c.    | 4                    | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD6            | 550 V a.c.    | 6                    | 80 kA at 550 V a.c. | gG              | F2           | 20            | SC63 Safeclip range     |
| ESD10           | 550 V a.c.    | 10                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD16           | 550 V a.c.    | 16                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD20           | 550 V a.c.    | 20                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD25           | 550 V a.c.    | 25                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD32           | 550 V a.c.    | 32                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD40           | 415 V a.c.    | 40                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD50           | 415 V a.c.    | 50                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD63           | 415 V a.c.    | 63                   | 80 kA at 550 V a.c. | gG              | F2           | 20            |                         |
| ESD63M80        | 415 V a.c.    | 63M80                | 80 kA at 415 V a.c. | gM              | F2           | 20            |                         |
| ESD63M100       | 415 V a.c.    | 63M100               | 80 kA at 415 V a.c. | gM              | F2           | 20            |                         |

#### Dimensions - mm

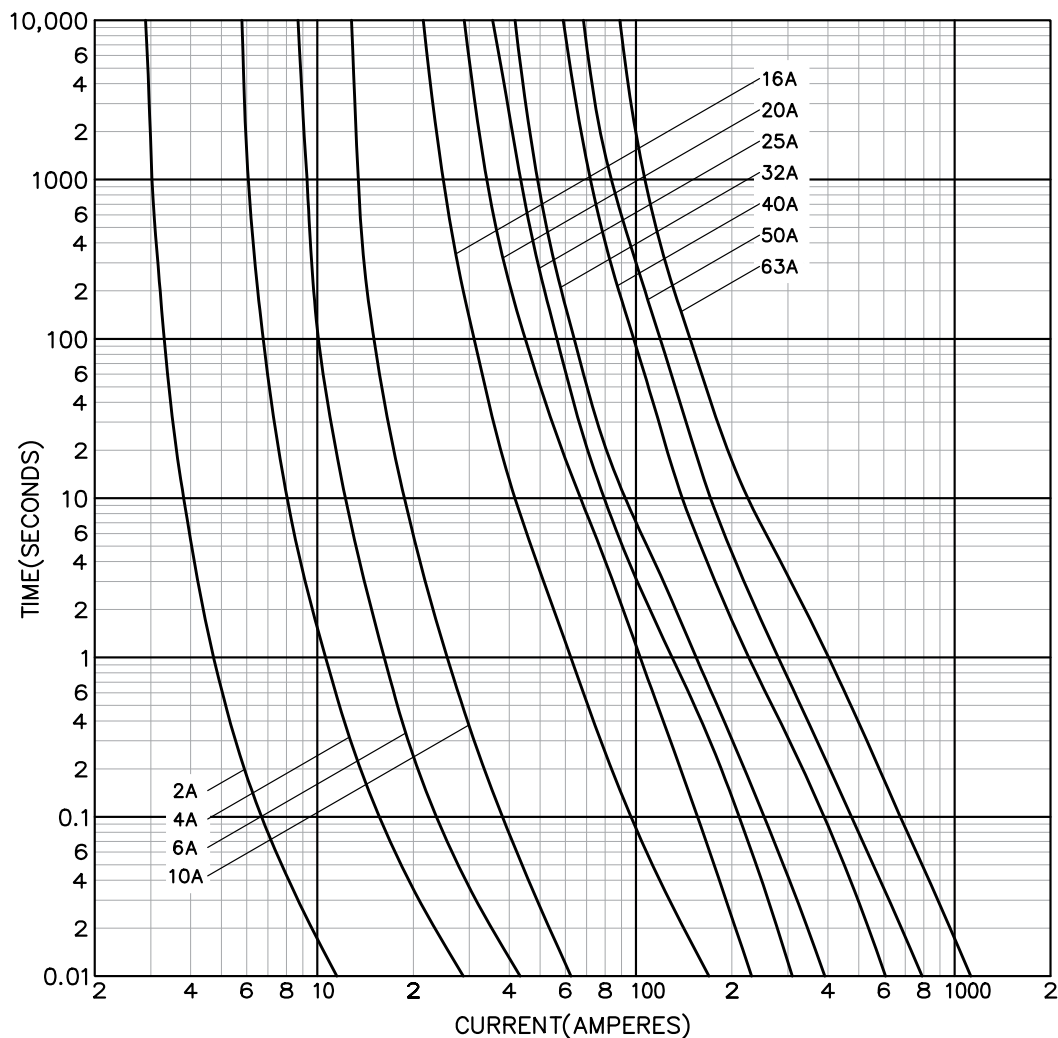


| Catalog numbers | A    | B    | D  | E  | F   | N   |
|-----------------|------|------|----|----|-----|-----|
| ESD2-32         | 35.5 | 13.8 | 68 | 15 | 1.2 | 3.5 |
| ESD40-63        | 35.5 | 17.5 | 68 | 15 | 1.2 | 3.5 |
| ESD63M80-100    | 35.5 | 21   | 68 | 15 | 1.2 | 3.5 |

[Data sheet: 4101](#)

### Time-current curves - General application fuse links

AAO, BAO, BC and BD gG fuse links



$I^2t$  (Amps<sup>2</sup> Seconds)

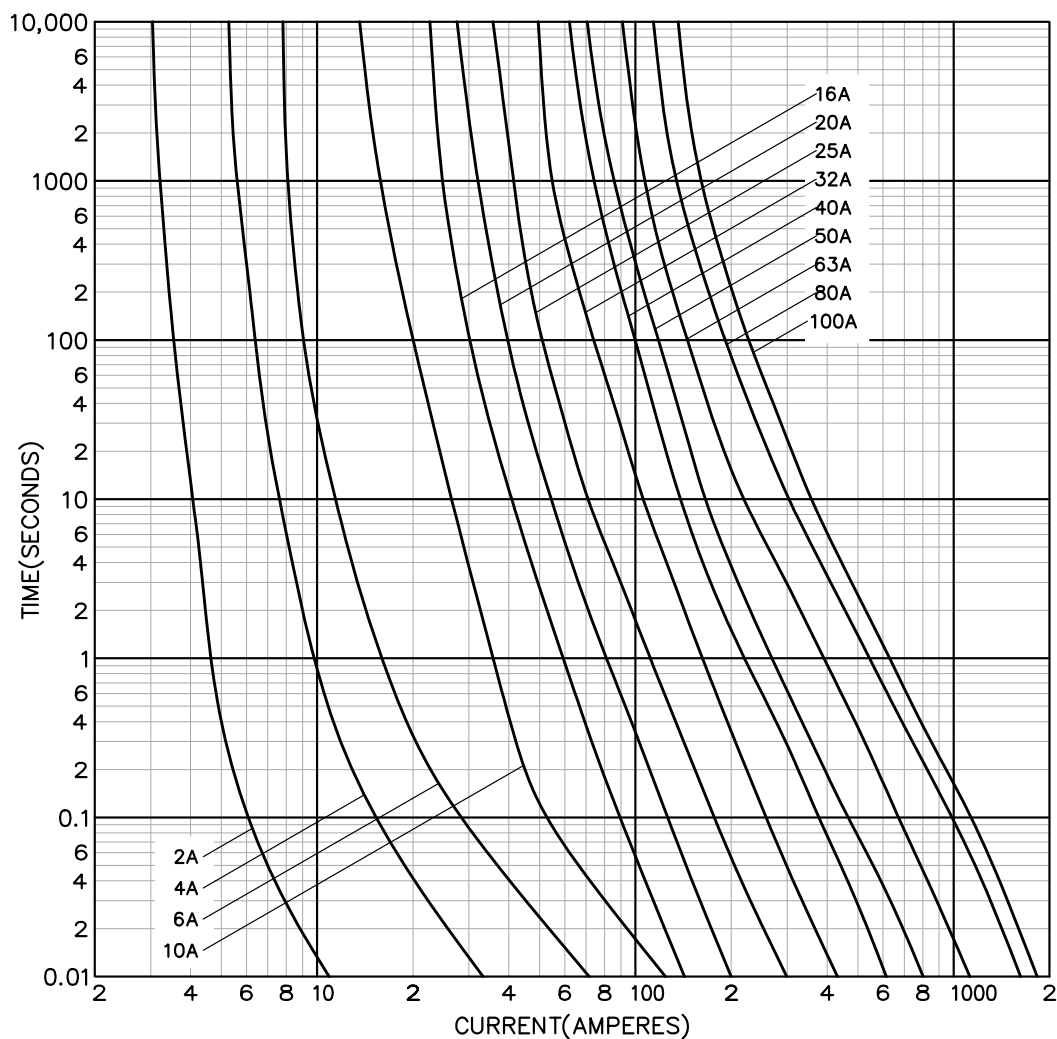
| Catalog prefix | Amp rating | Pre-arcing | Total at 415 V | Nom watts loss |
|----------------|------------|------------|----------------|----------------|
| AAO            | 2          | 1.4        | 4.7            | 0.9            |
| AAO            | 4          | 7.8        | 26             | 1.4            |
| AAO            | 6          | 28         | 100            | 1.8            |
| AAO            | 10         | 125        | 400            | 2.1            |
| AAO            | 16         | 120        | 470            | 1.8            |
| AAO            | 20         | 260        | 1000           | 1.8            |
| AAO            | 25         | 570        | 2300           | 2.0            |
| AAO            | 32         | 710        | 3000           | 2.9            |
| BAO BC BD      | 40         | 1400       | 3600           | 4.7            |
| BAO BC BD      | 50         | 3000       | 8000           | 4.9            |
| BAO BC BD      | 63         | 6700       | 18800          | 5.6            |

# Industrial and motor applications to BS88 - Standard

Time-current curves - General application fuse links

## Time-current curves - General application fuse links

AC, AD, CD, CEO and OSD - gG Fuse links

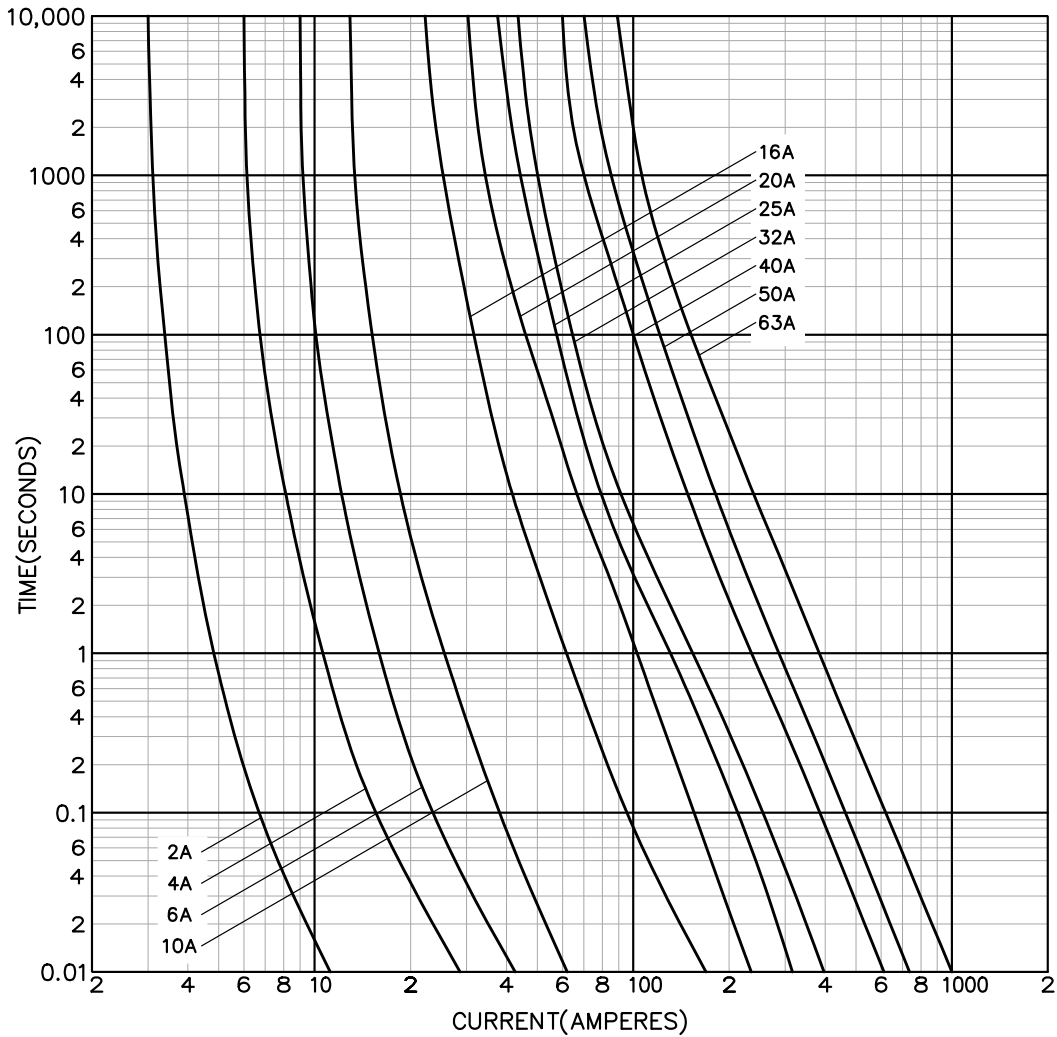


**I<sup>2</sup>t (Amps<sup>2</sup> Seconds)**

| Catalog prefix |    |     |        | Amp rating | Pre-arcing | Total at 415 V | Nom watts loss |
|----------------|----|-----|--------|------------|------------|----------------|----------------|
| AC             | AD |     |        | 2          | 1.2        | 3.1            | 1.2            |
| AC             | AD |     |        | 4          | 11         | 31             | 1.4            |
| AC             | AD |     |        | 6          | 32         | 90             | 1.8            |
| AC             | AD |     |        | 10         | 20         | 60             | 2.4            |
| AC             | AD |     |        | 16         | 85         | 240            | 2.9            |
| AC             | AD |     |        | 20         | 220        | 580            | 3.1            |
| AC             | AD |     |        | 25         | 500        | 1400           | 3.2            |
| AC             | AD | CEO |        | 32         | 1000       | 2760           | 3.5            |
|                |    | CEO |        | 40         | 1400       | 3750           | 4.7            |
|                |    | CEO |        | 50         | 3000       | 8350           | 4.9            |
|                |    | CEO |        | 63         | 7000       | 18800          | 5.6            |
|                |    | CEO | CD OSD | 80         | 13000      | 35200          | 7.2            |
|                |    | CEO | CD OSD | 100        | 25000      | 76500          | 5.6            |

### Time-current curves - General application fuse links

ESD, NITD, NSD - gG Fuse links



**I<sup>2</sup>t (Amps<sup>2</sup> Seconds)**

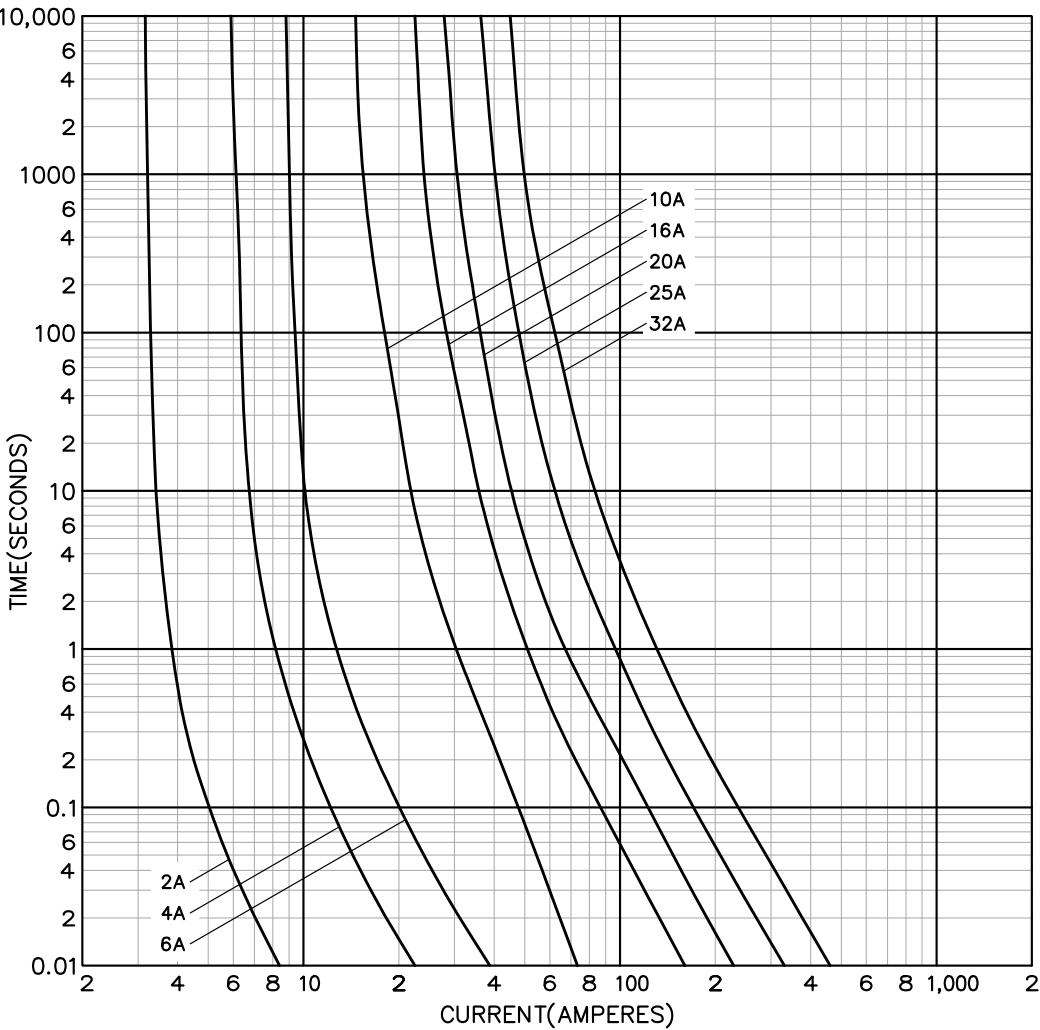
| Catalog prefix |      |     | Amp rating | Pre-arcing | Total at 415 V | Nom watts loss |
|----------------|------|-----|------------|------------|----------------|----------------|
| NSD            | NITD | ESD | 2          | 1.3        | 4.6            | 0.9            |
| NSD            | NITD | ESD | 4          | 8          | 27             | 1.4            |
| NSD            | NITD | ESD | 6          | 29         | 100            | 1.8            |
| NSD            | NITD | ESD | 10         | 120        | 400            | 2.1            |
| NSD            | NITD | ESD | 16         | 120        | 470            | 1.8            |
| NSD            | NITD | ESD | 20         | 260        | 1070           | 1.8            |
| NSD            | NITD | ESD | 25         | 560        | 2300           | 2.0            |
| NSD            | NITD | ESD | 32         | 710        | 3000           | 2.9            |
|                |      | ESD | 40         | 1500       | 6000           | 3.2            |
|                |      | ESD | 50         | 2700       | 8700           | 3.9            |
|                |      | ESD | 63         | 5000       | 13300          | 4.6            |

# Industrial and motor applications to BS88 - Standard

Time-current curves - General application fuse links

## Time-current curves - General application fuse links

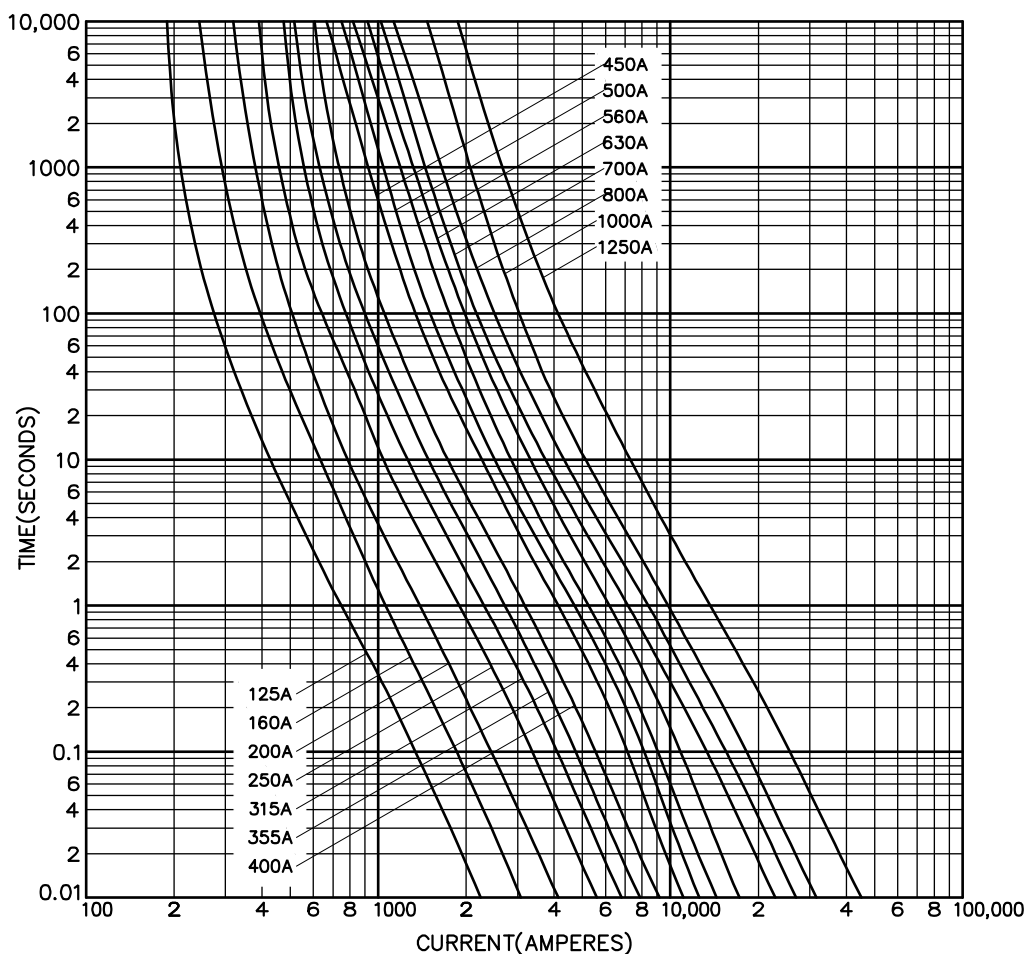
SSD - gG Fuse links



| Catalog prefix | Amp rating | I²t (Amps² Seconds) |                |                |
|----------------|------------|---------------------|----------------|----------------|
|                |            | Pre-arcing          | Total at 415 V | Nom watts loss |
| SSD2           | 2          | 0.8                 | 1              | 0.5            |
| SSD4           | 4          | 5.5                 | 8              | 1.0            |
| SSD6           | 6          | 1.5                 | 22             | 1.6            |
| SSD10          | 10         | 28                  | 42             | 1.2            |
| SSD16          | 16         | 160                 | 250            | 1.5            |
| SSD20          | 20         | 290                 | 450            | 1.7            |
| SSD25          | 25         | 800                 | 1300           | 1.8            |
| SSD32          | 32         | 1600                | 2500           | 2.4            |

### Time-current curves - General application fuse links

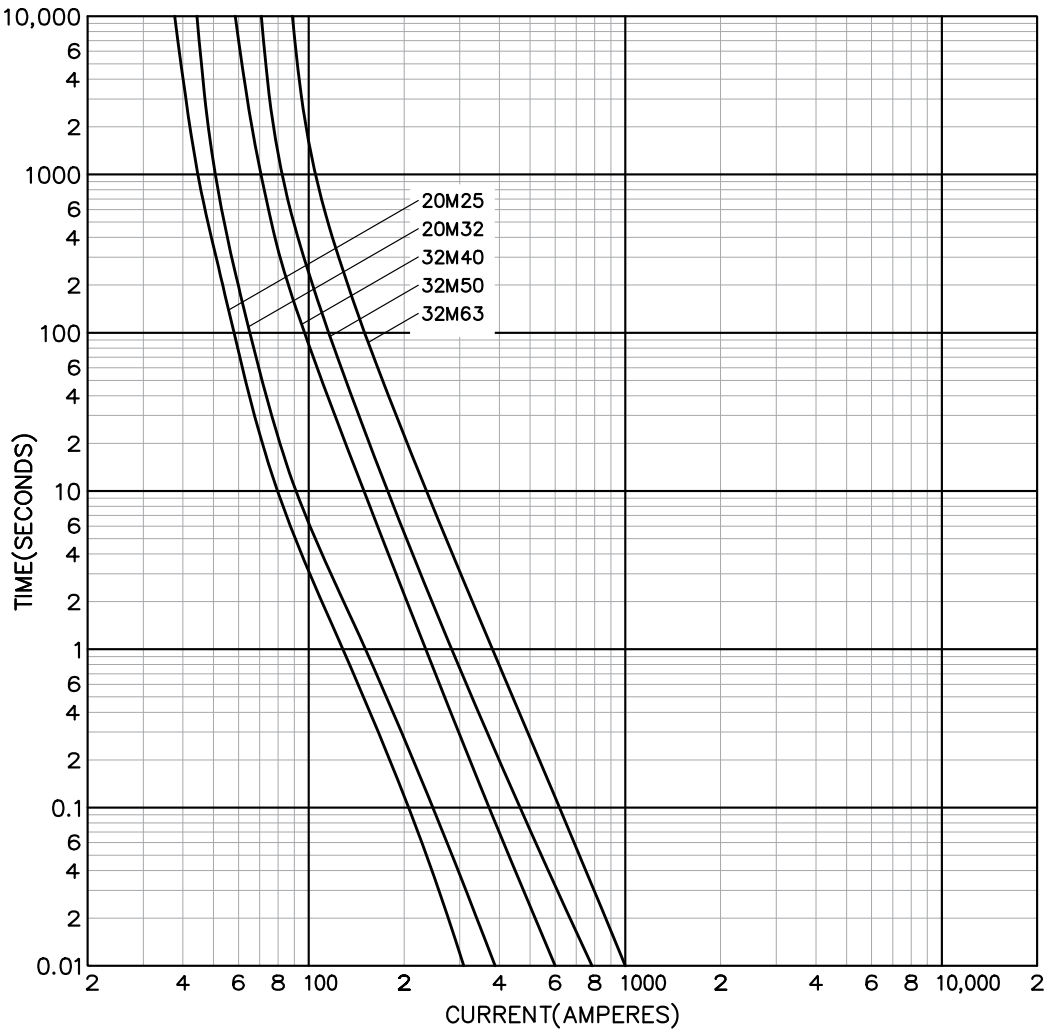
DD, DEO, ED, EFS, EF, FF, FG, GF, GG, GH - gG Fuse links



|                |     |    |    |     |    | I²t (Amps² Seconds) |            |                |                |                |                |            |    |
|----------------|-----|----|----|-----|----|---------------------|------------|----------------|----------------|----------------|----------------|------------|----|
| Catalog prefix |     |    |    |     |    | Amp rating          | Pre-arcing | Total at 240 V | Total at 415 V | Total at 550 V | Nom watts loss |            |    |
| DD             | DEO |    |    | EFS |    | 125                 | 29,500     | 50,000         | 71,000         | -              | 11             |            |    |
| DD             | DEO |    |    | EFS |    | 160                 | 57,000     | 97,000         | 135,000        | -              | 13             |            |    |
| DD             | DEO |    |    | EFS |    | 200                 | 120,000    | 205,000        | 290,000        | -              | 14             |            |    |
| ED             |     | ED |    | EFS |    | 250                 | 200,000    | 340,000        | 480,000        | -              | 18             |            |    |
|                |     | ED |    | EFS |    | 315                 | 265,000    | 450,000        | 635,000        | -              | 22             |            |    |
|                |     | ED | EF |     |    | 355                 | 360,000    | 610,000        | 865,000        | -              | 24             |            |    |
|                |     | ED | EF |     |    | 400                 | 475,000    | 810,000        | 1,150,000      | -              | 29             |            |    |
|                |     |    |    | FF  | FG |                     | 450        | 880,000        | -              | 1,600,000      | 2,200,000      | 32         |    |
|                |     |    |    | FF  | FG |                     | 500        | 1,100,000      | -              | 2,000,000      | 2,800,000      | 38         |    |
|                |     |    |    | FF  | FG |                     | 560        | 1,400,000      | -              | 2,400,000      | 3,500,000      | 43         |    |
|                |     |    |    | FF  | FG |                     | 630        | 2,000,000      | -              | 3,500,000      | 5,000,000      | 50         |    |
|                |     |    |    |     | GF | GG                  | GH         | 710            | 3,500,000      | -              | 8,100,000      | 11,000,000 | 53 |
|                |     |    |    |     | GF | GG                  | GH         | 800            | 5,050,000      | -              | 11,500,000     | 15,500,000 | 64 |
|                |     |    |    |     | GG | GH                  | 1000       | 6,800,000      | -              | 16,000,000     | 21,000,000     | 69         |    |
|                |     |    |    |     | GG | GH                  | 1250       | 14,000,000     | -              | 31,000,000     | 42,000,000     | 85         |    |

Time-current curves - Motor rated fuse links

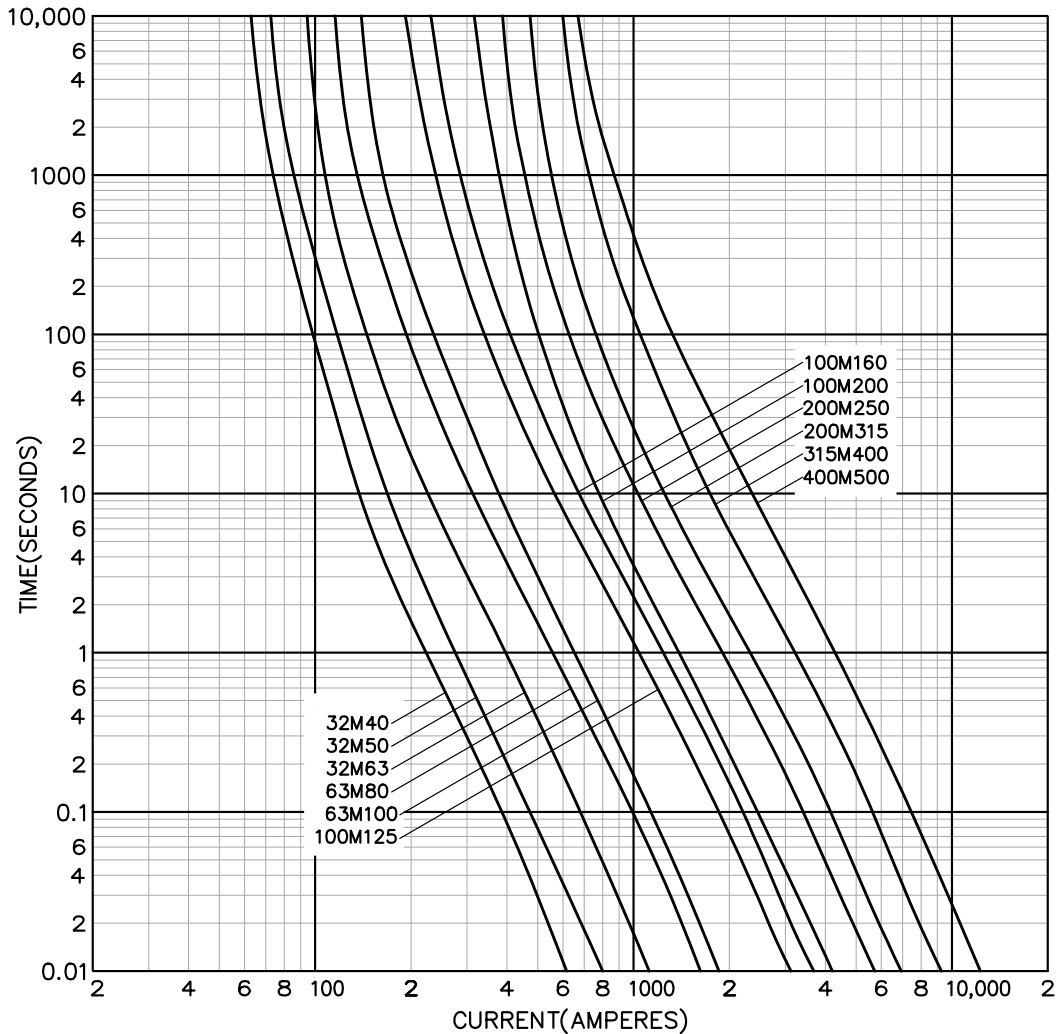
NITD - aM Motor fuse links



| Catalog num-ber | Amp rating | I²t (Amps² Seconds) |                |                | Nom watts loss |
|-----------------|------------|---------------------|----------------|----------------|----------------|
|                 |            | Pre-arcing          | Total at 415 V | Total at 550 V |                |
| NITD20M25       | 20M25      | 575                 | 2300           | 3700           | 1.6            |
| NITD20M32       | 20M32      | 720                 | 3000           | 6000           | 1.1            |
| NITD32M40       | 32M40      | 1500                | 6000           | -              | 1.9            |
| NITD32M50       | 32M50      | 2700                | 8600           | -              | 1.4            |
| NITD32M63       | 32M63      | 5000                | 13,400         | -              | 1.0            |

## Time-current curves - Motor rated fuse links

AAO, BAO, BC, CD, CEO, DE, DD, DEO, ED, EF, OSD - aM Motor fuse links



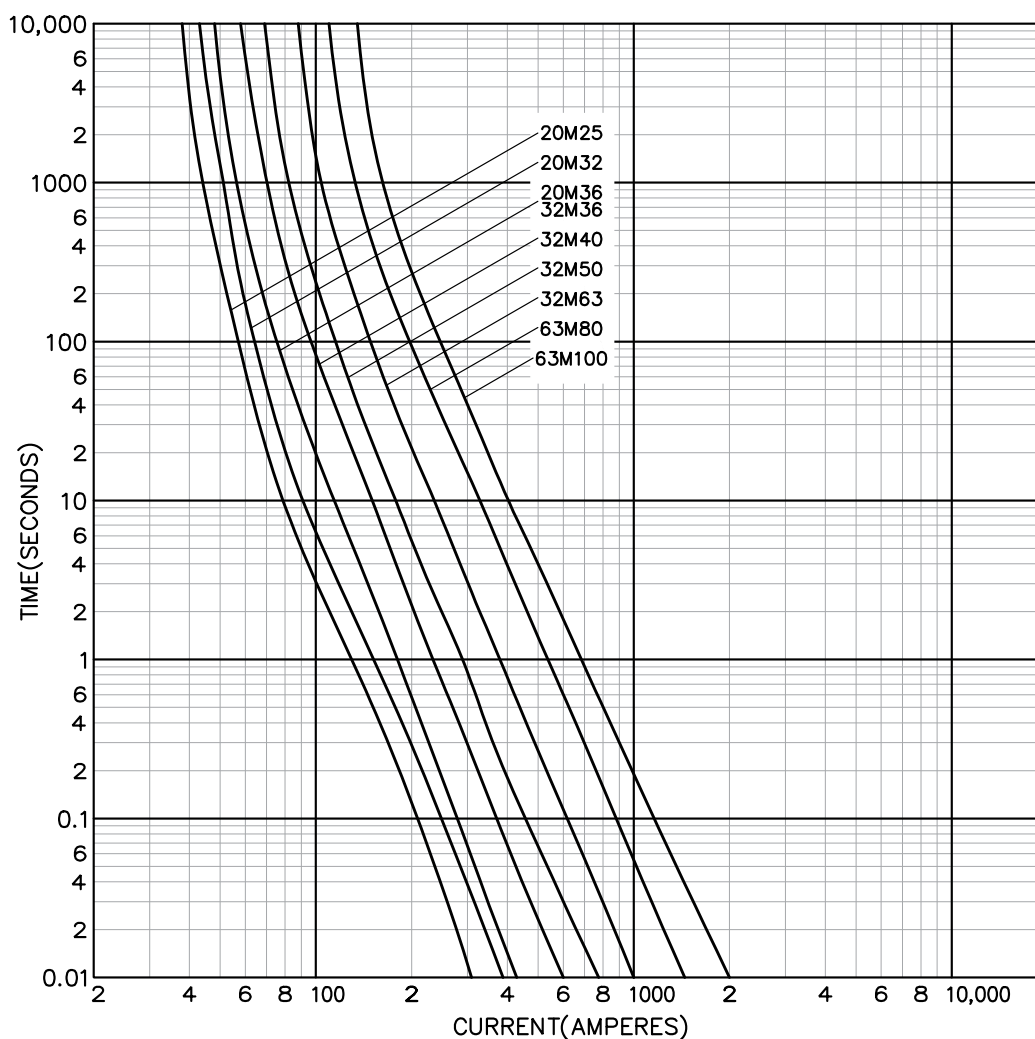
|                |     |    |     |     | I <sup>2</sup> t (Amps <sup>2</sup> Seconds) |            |                |
|----------------|-----|----|-----|-----|----------------------------------------------|------------|----------------|
| Catalog prefix |     |    |     |     | Amp rating                                   | Pre-arcing | Total at 415 V |
| AAO            |     |    |     |     | 32M40                                        | 1400       | 3800           |
| AAO            |     |    |     |     | 32M50                                        | 3000       | 8500           |
| AAO            |     |    |     |     | 32M63                                        | 7000       | 18,000         |
|                | BAO | BC |     |     | 63M80                                        | 12,600     | 33,900         |
|                | BAO | BC |     |     | 63M100                                       | 24,000     | 72,900         |
|                |     | CD | CEO | OSD | 100M125                                      | 57,000     | 150,000        |
|                |     | CD | CEO | OSD | 100M160                                      | 72,500     | 190,000        |
|                |     | CD | CEO |     | 100M200                                      | 120,000    | 290,000        |
|                |     |    | DD  | DEO | 200M250                                      | 200,000    | 480,000        |
|                |     |    | DD  |     | 200M315                                      | 265,000    | 635,000        |
|                |     |    |     | ED  | 315M400                                      | 475,000    | 1,150,000      |
|                |     |    |     | ED  | 400M500                                      | 1,200,000  | 2,700,000      |
|                |     |    |     | EF  |                                              |            | 3,600,000      |

# Industrial and motor applications to BS88 - Standard

Time-current curves - Motor rated fuse links

## Time-current curves - Motor rated fuse links

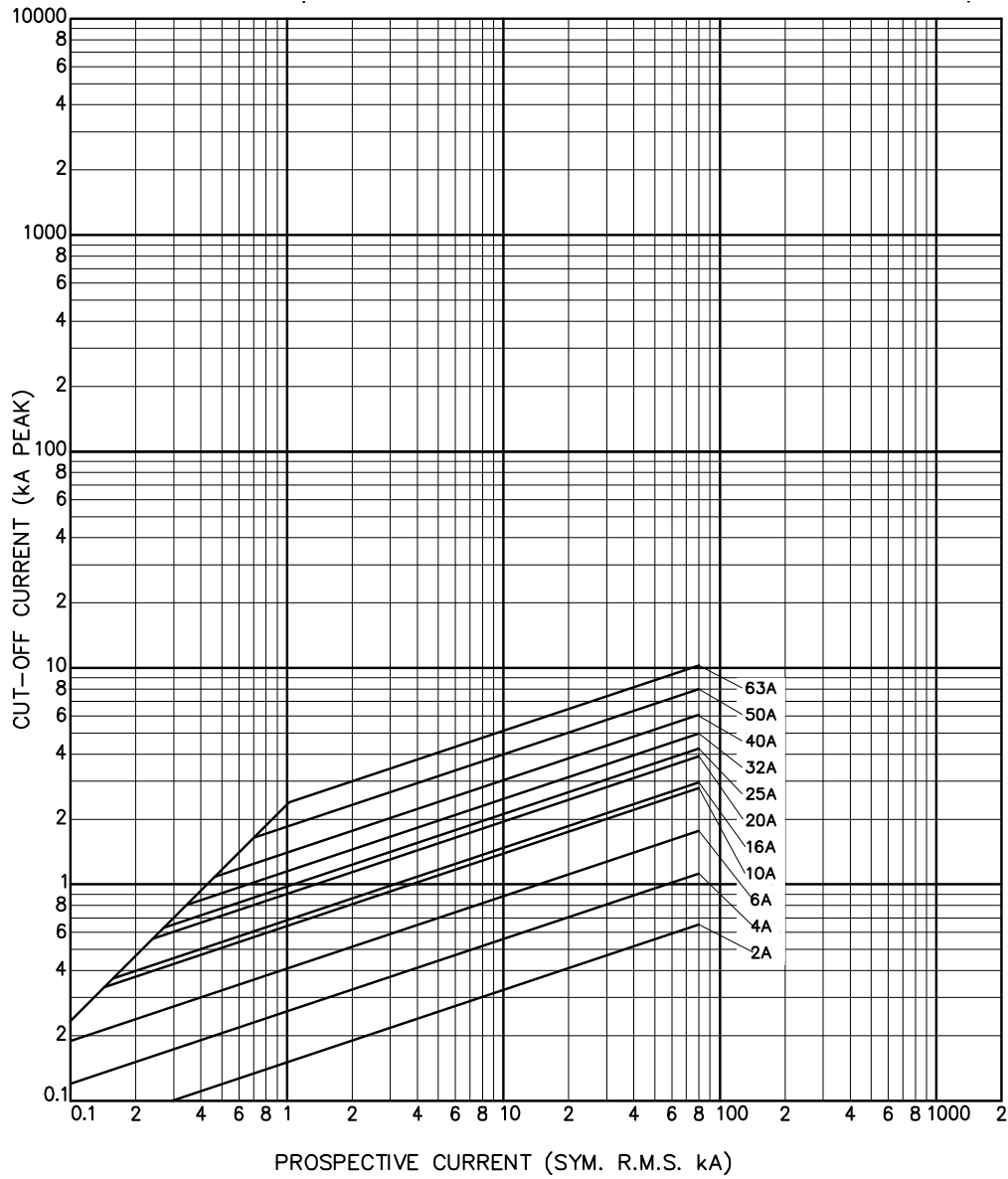
OSD and ESD - aM Motor fuse links



| I²t (Amps² Seconds) |            |            |                |                |  |
|---------------------|------------|------------|----------------|----------------|--|
| Catalog prefix      | Amp rating | Pre-arcing | Total at 415 V | Nom watts loss |  |
| NSD                 | 20M25      | 570        | 2350           | 1.2            |  |
| NSD                 | 20M32      | 770        | 3000           | 0.95           |  |
| NSD                 | 20M36      | 1150       | 5000           | 0.88           |  |
| NSD                 | 32M36      | 1150       | 5000           | 2.4            |  |
| NSD                 | 32M40      | 1500       | 6000           | 1.9            |  |
| NSD                 | 32M50      | 2700       | 8700           | 1.4            |  |
| NSD                 | 32M63      | 5000       | 13,550         | 1.0            |  |
| ESD                 | 63M80      | 12,650     | 40,000         | 3.4            |  |
| ESD                 | 63M100     | 20,750     | 70,000         | 2.5            |  |

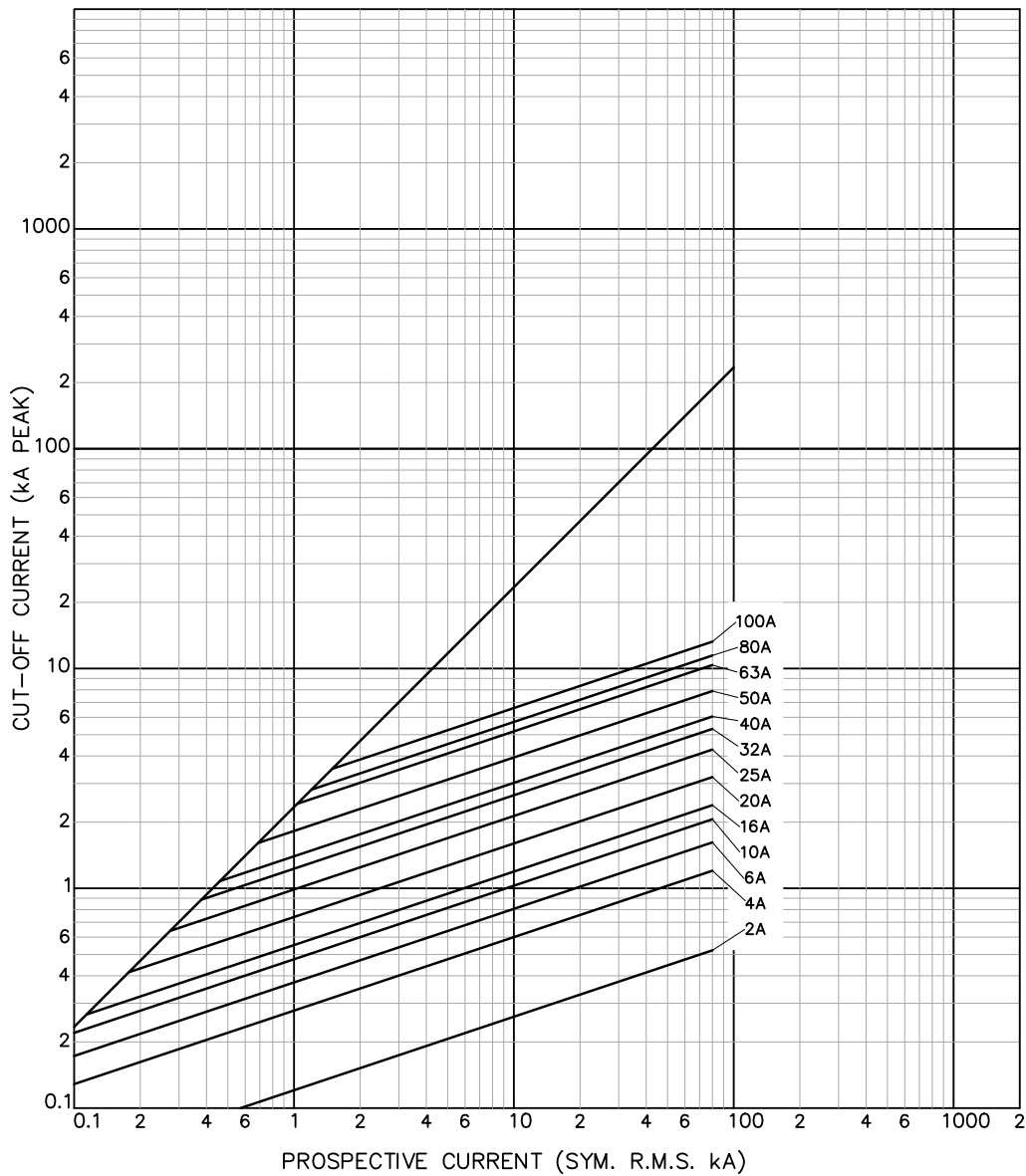
## Cut-off curves - General application fuse links

AAO, BAO, BC, BD - gG Fuse links



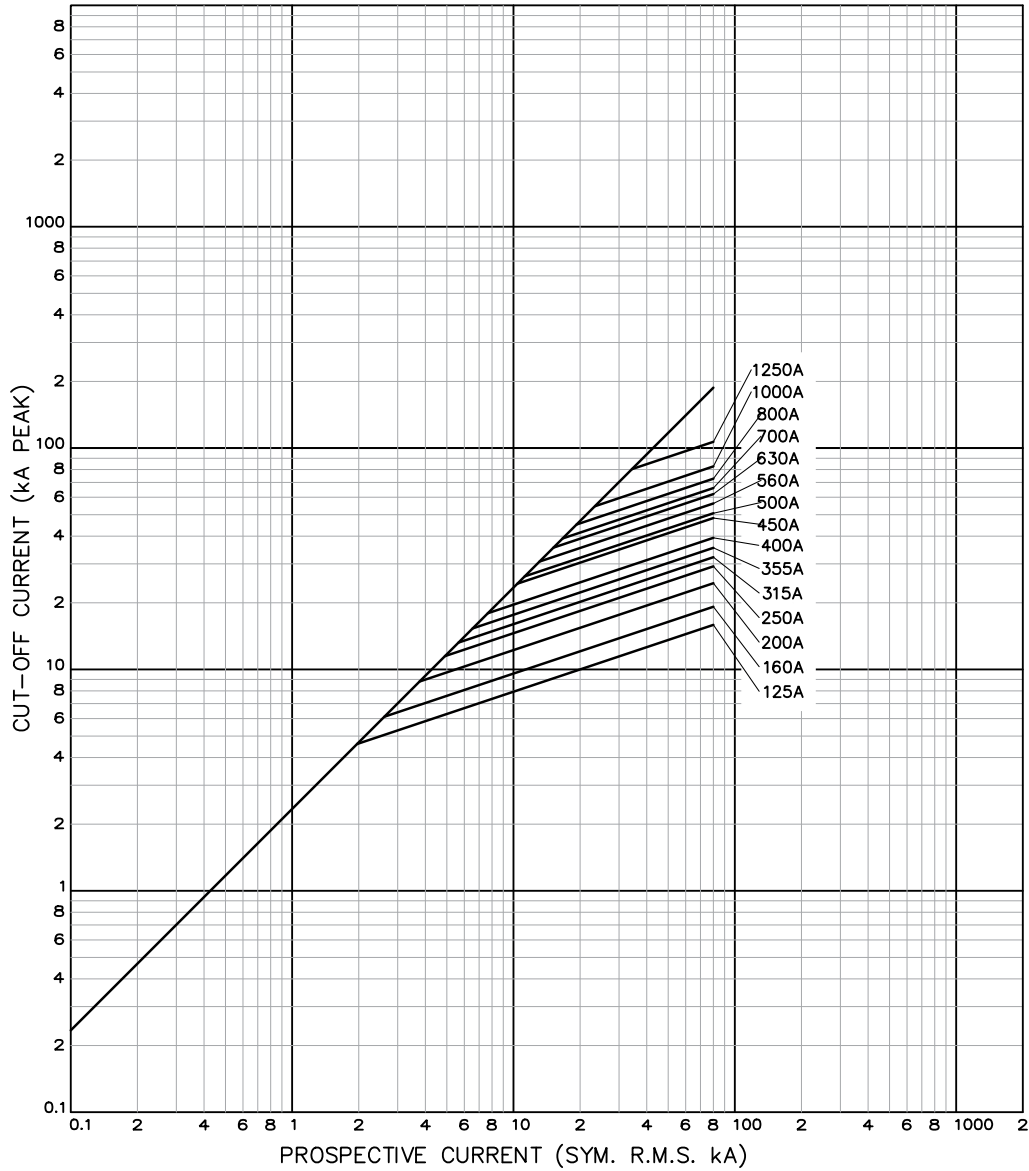
Cut-off curves - General application fuse links

AC, AD, CD, CEO, OSD - gG Fuse links



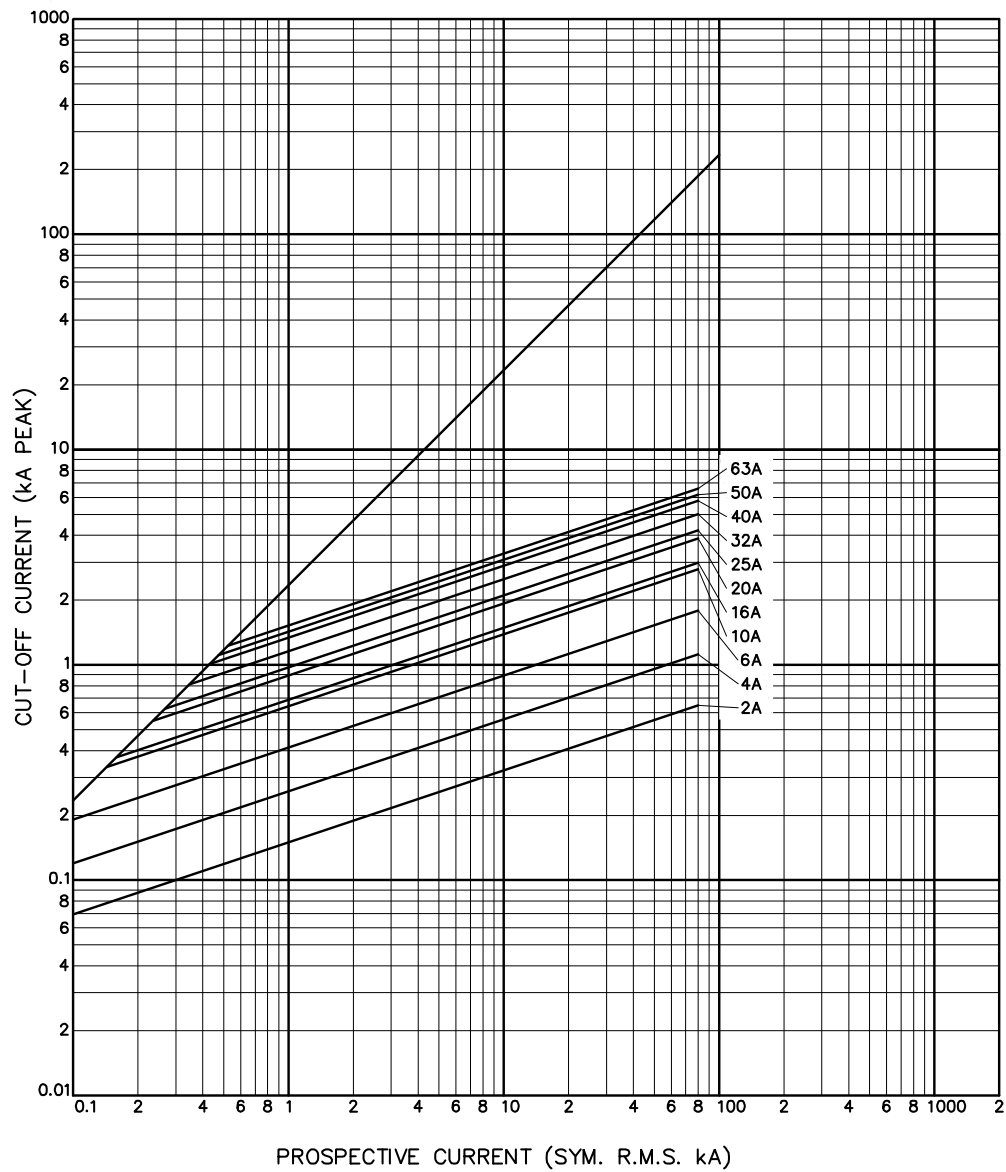
### Cut-off curves - General application fuse links

DD, DEO, ED, EF, EFS, FF, FG, GF, GG, GH - gG Fuse links



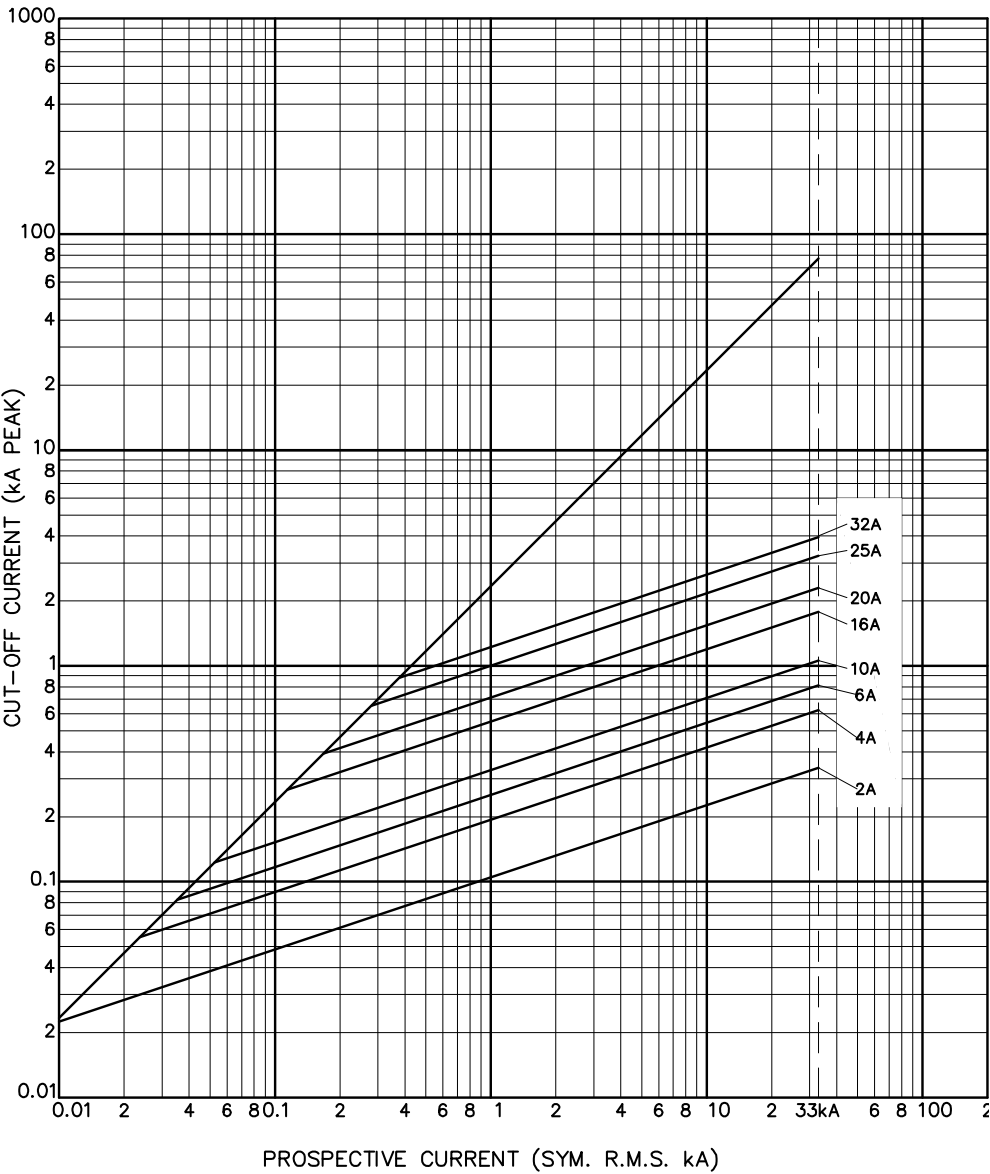
Cut-off curves - General application fuse links

ESD, NITD, NSD - gG Fuse links



Cut-off curves - General application fuse links

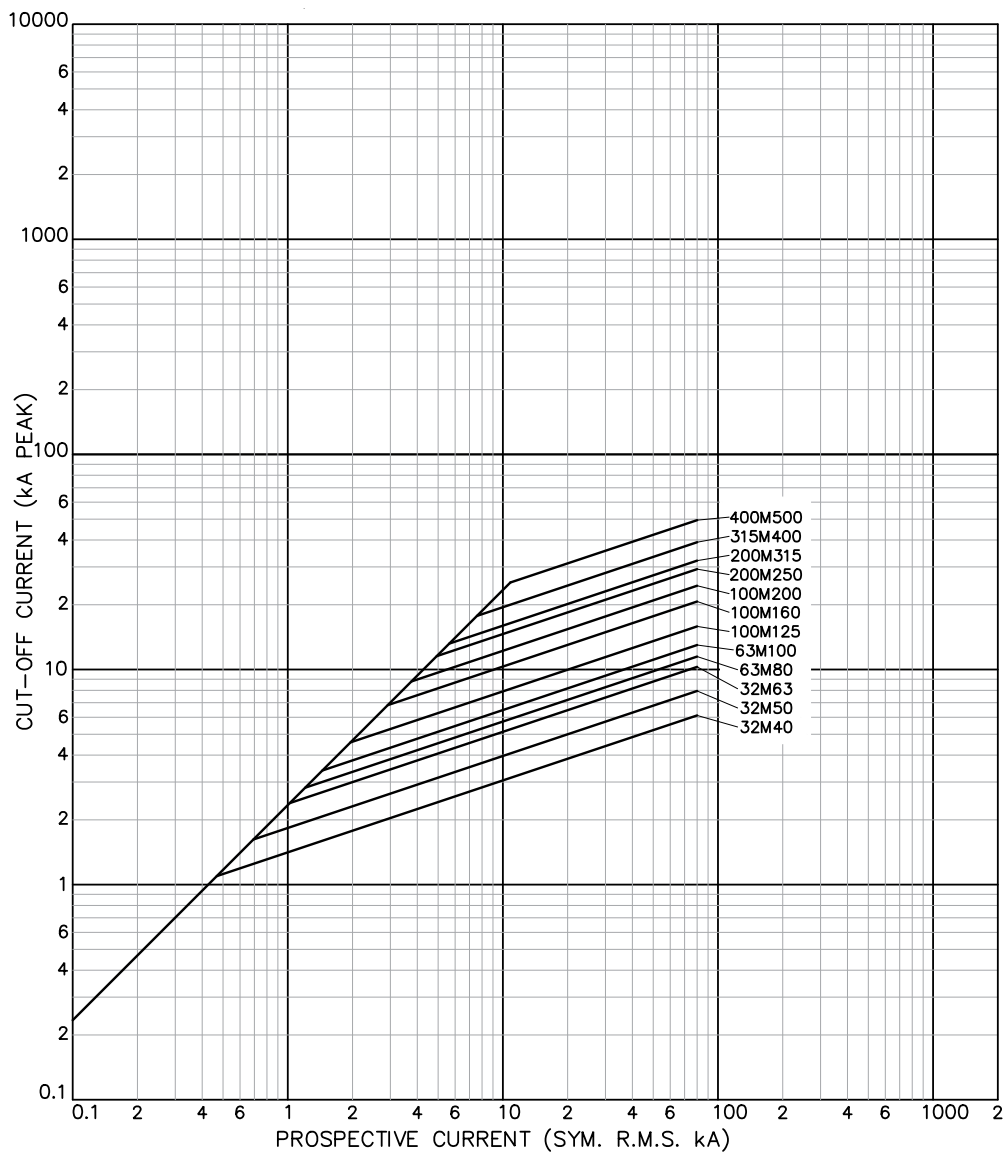
SSD - gG Fuse links



Cut-off curves - Motor rated fuse links

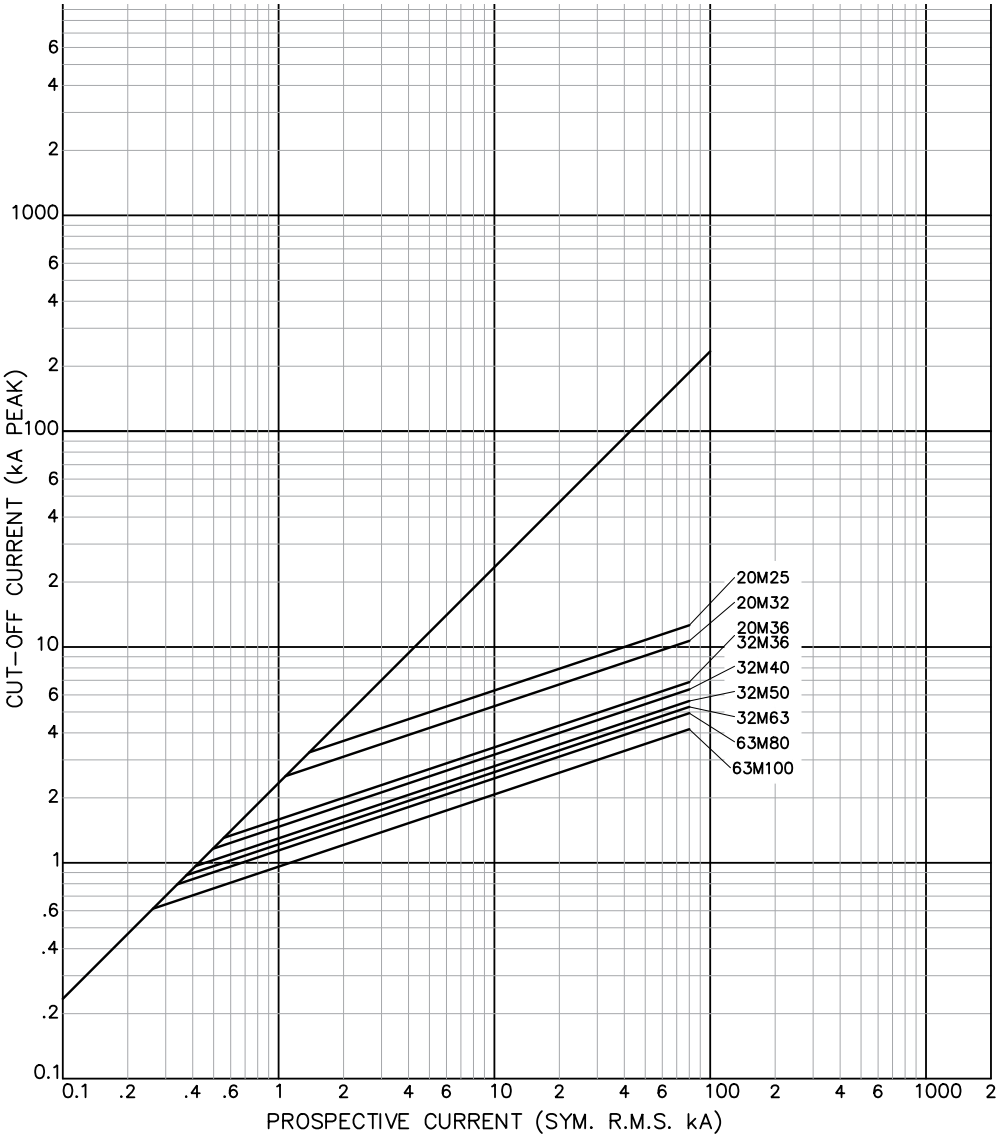
Cut-off curves - Motor rated fuse links

AAO, BAO, CD, CEO, DD, DEO, ED, OSD - aM Fuse links



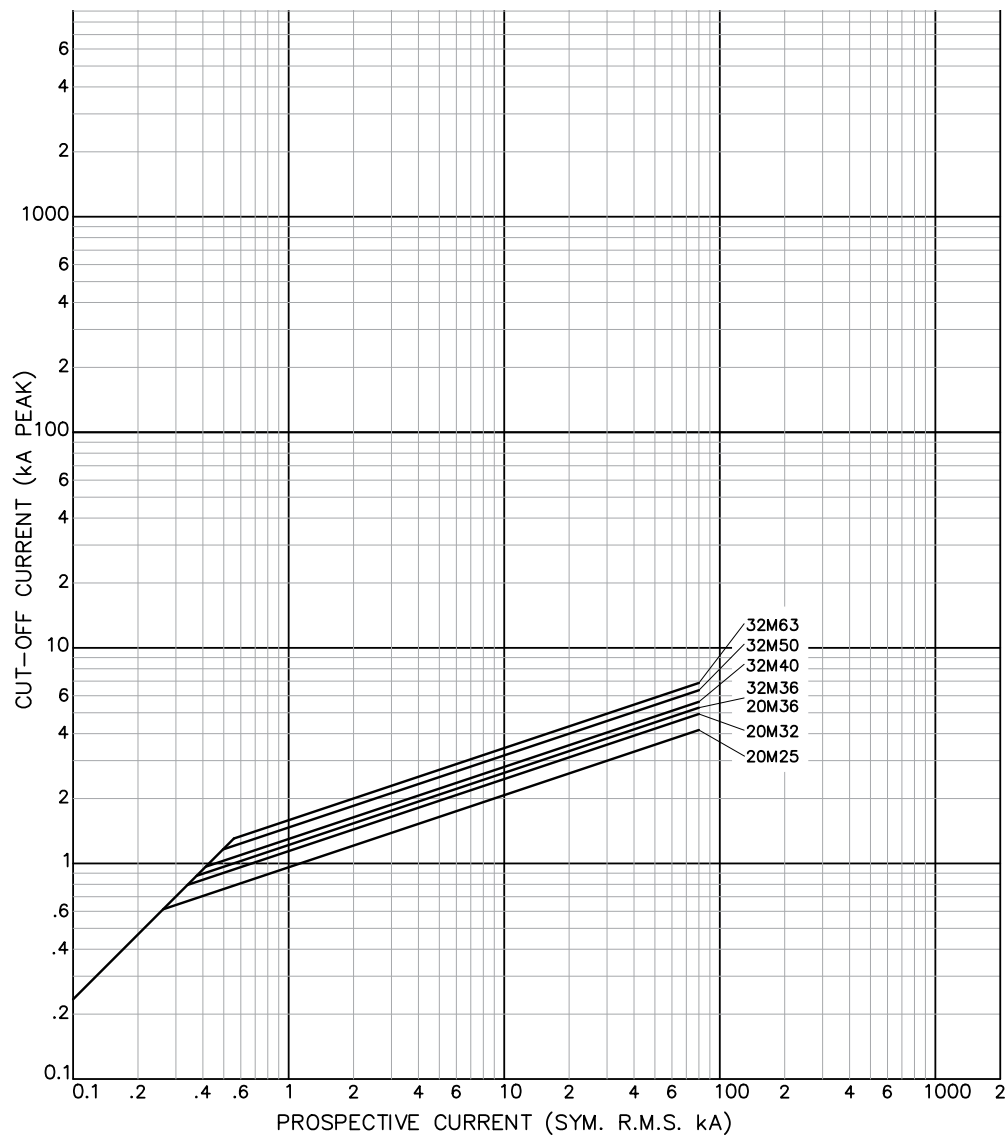
Cut-off curves - Motor rated fuse links

ESD, NSD - aM Fuse links



Cut-off curves - Motor rated fuse links

NITD - aM Fuse links



### Special DC range offset/centre bolted tags fuse links

#### Specifications

##### Description

Fuse links for industrial DC applications available in offset and centre bolted tags for the protection of DC electrical circuits.

##### Technical data

Rated voltage: 500 V d.c.(max 20 mS time constant)\*  
Rated current: 10 to 63 A  
Breaking capacity: 40 kA at 500 V d.c.

##### Standard/agency information

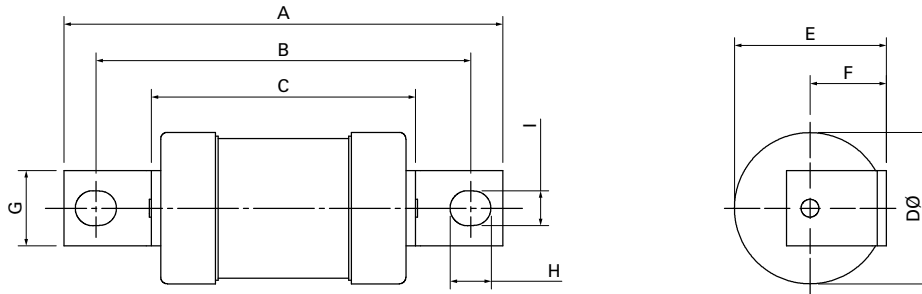
Meets BS88 Part 1 and 2, in accordance with RoHS 2011/65/IEC.

##### Product selection

##### HS07, class gG, 500 V d.c, 10 to 32 A, offset bolted tags

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity*   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder  |
|-----------------|---------------|----------------------|----------------------|-----------------|--------------------|---------------|-------------------------|
| 10HS07          | 500 V d.c.    | 10                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            | CM32F<br>Camaster range |
| 16HS07          | 500 V d.c.    | 16                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            |                         |
| 20HS07          | 500 V d.c.    | 20                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            |                         |
| 25HS07          | 500 V d.c.    | 25                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            |                         |
| 32HS07          | 500 V d.c.    | 32                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            |                         |

##### Dimensions - mm

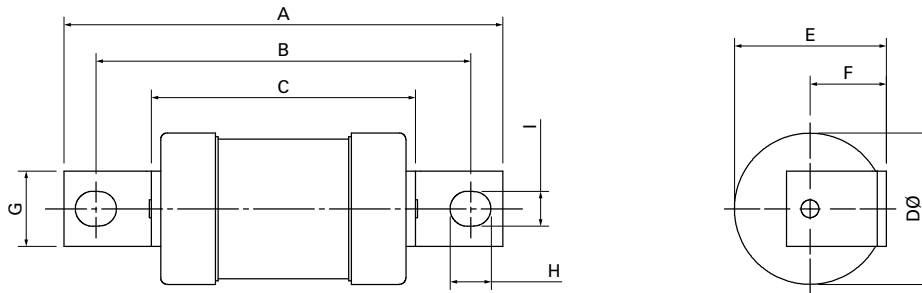


| Catalog numbers | A    | B  | C  | D  | E    | F    | G   | H   | I   |
|-----------------|------|----|----|----|------|------|-----|-----|-----|
| 10-32HS07       | 82.3 | 73 | 52 | 22 | 22.4 | 11.5 | 8.7 | 7.7 | 5.4 |

##### KS07, class gG, 500 V d.c, 40 to 63 A, offset bolted tags

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity*   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder  |
|-----------------|---------------|----------------------|----------------------|-----------------|--------------------|---------------|-------------------------|
| 40KS07          | 500 V d.c.    | 40                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            | CM63F<br>Camaster range |
| 50KS07          | 500 V d.c.    | 50                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            |                         |
| 63KS07          | 500 V d.c.    | 63                   | 40 kA at 500 V d.c.* | gG              | 73                 | 20            |                         |

##### Dimensions - mm



| Catalog numbers | A  | B  | C    | D    | E    | F  | G    | H    | I   |
|-----------------|----|----|------|------|------|----|------|------|-----|
| 40-63KS07       | 86 | 73 | 54.2 | 25.8 | 26.9 | 14 | 12.7 | 10.5 | 5.5 |

Data sheet: E5785017

# Industrial and motor applications to BS88 - Standard

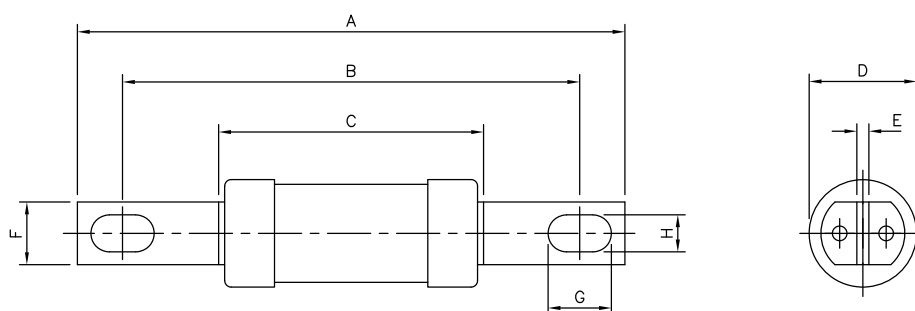
Special DC range offset/centre bolted tags fuse links

## Special DC range offset/centre bolted tags fuse links

KS08, class gG, 500 V d.c., 40 to 63 A, Centre bolted tags

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity*   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|----------------------|-----------------|--------------------|---------------|
| 40KS08          | 500 V d.c.    | 40                   | 40 kA at 500 V d.c.* | gG              | 93 mm              | 20            |
| 50KS08          | 500 V d.c.    | 50                   | 40 kA at 500 V d.c.* | gG              | 93 mm              | 20            |
| 63KS08          | 500 V d.c.    | 63                   | 40 kA at 500 V d.c.* | gG              | 93 mm              | 20            |

### Dimensions - mm

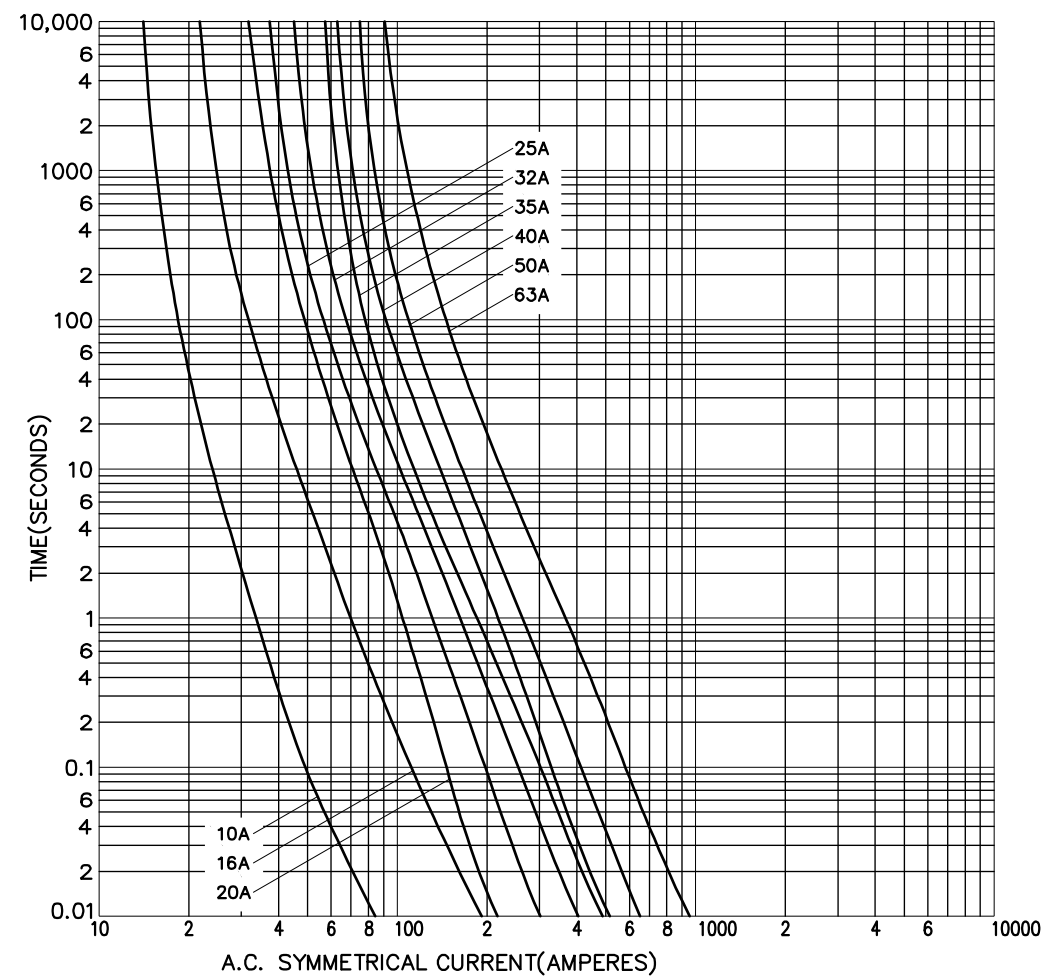


| Catalog numbers | A   | B  | C  | D  | E   | F    | G  | H   |
|-----------------|-----|----|----|----|-----|------|----|-----|
| 40-63KS08       | 111 | 93 | 54 | 25 | 2.4 | 12.7 | 13 | 7.5 |

Data sheet: E5785017

Time-current curve

HS and KS - gG Fuse links



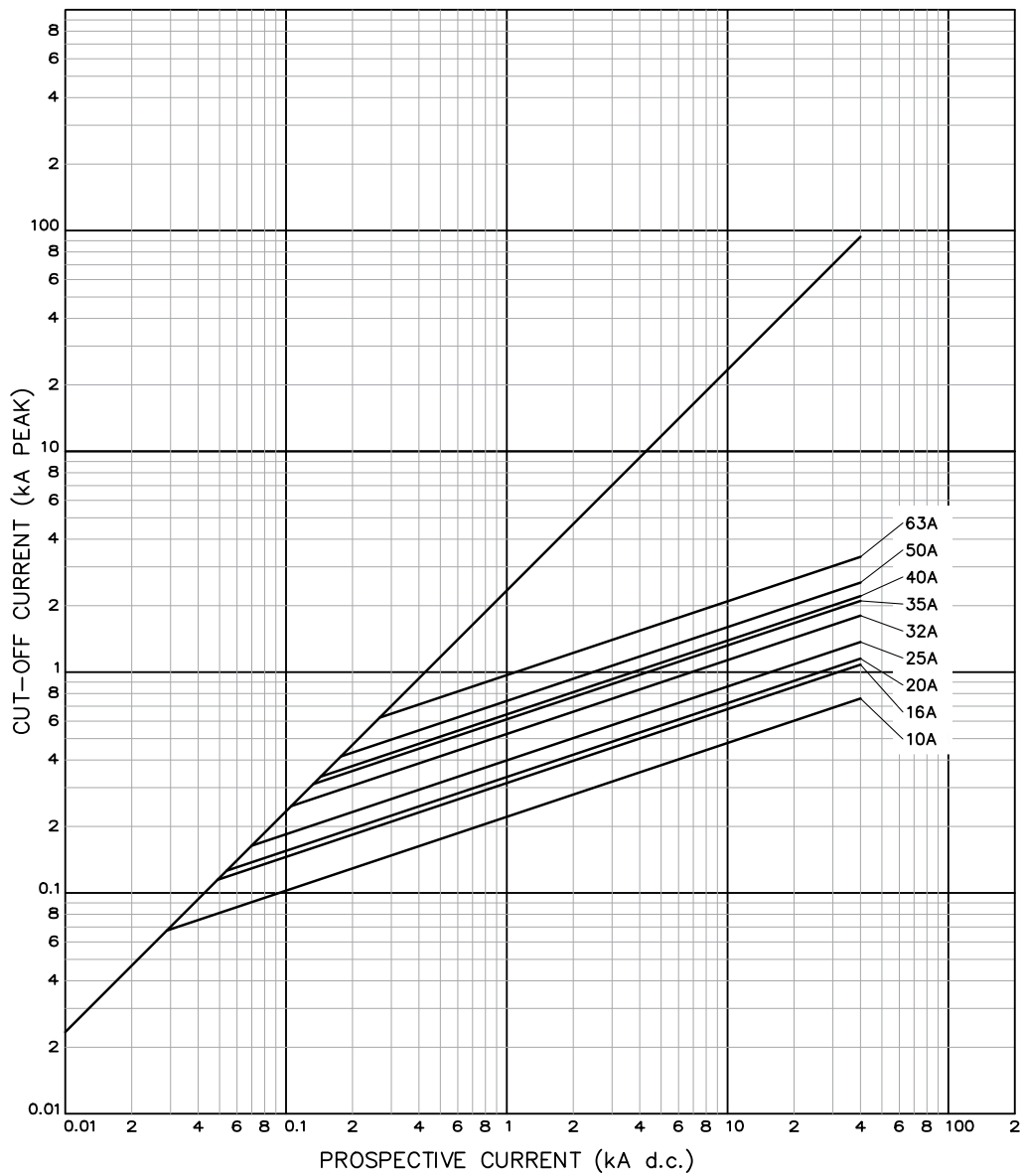
|                |      |            | I²t (Amps² Seconds) |                     |                     |                |     |
|----------------|------|------------|---------------------|---------------------|---------------------|----------------|-----|
| Catalog prefix |      | Amp rating | Pre-arcing          | Total at 415 V a.c. | Total at 500 V d.c. | Nom watts loss |     |
| HS07           |      | 10         | 44                  | 130                 | 180                 | 2.8            |     |
| HS07           |      | 16         | 250                 | 765                 | 1000                | 2.8            |     |
| HS07           |      | 20         | 330                 | 765                 | 1000                | 2.5            |     |
| HS07           |      | 25         | 650                 | 1500                | 2000                | 2.8            |     |
| HS07           |      | 32         | 1350                | 3100                | 4100                | 3.5            |     |
|                | KS07 | KS08       | 40                  | 1900                | 4400                | 5900           | 4.0 |
|                | KS07 | KS08       | 50                  | 3400                | 7800                | 10,500         | 5.0 |
|                | KS07 | KS08       | 63                  | 7650                | 17500               | 23,500         | 5.4 |

# Industrial and motor applications to BS88 - Standard

Cut-off curve

## Cut-off curve

HS and KS - gG Fuse links



500 V d.c., time constant = 20 mS

### Offset bolted tags fuse links

#### Specifications

##### Description

Fuse links for industrial applications with 690 V a.c. that meets dimensional and performance requirements of BS88 and IEC 60269-1-2 standards for the protection of large industrial installations up to 690 V a.c.

##### Technical data

Rated voltage: 690 V a.c.  
 Rated current: 2 to 32 A  
 Breaking capacity: 80 kA at 690 V a.c.

##### Standard/agency information

Meets BS88 Part 1 and 2, IEC 60269 parts 1 and 2, in accordance with RoHS 2011/65/IEC.

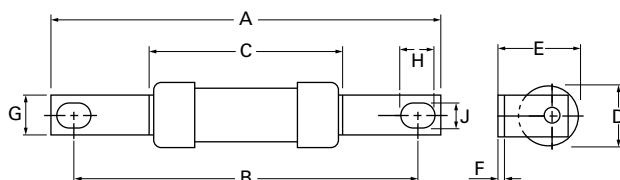
##### Product selection

##### H07, class gG, 690 V a.c., 2 to 32 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 2H07-660        | 690 V a.c.    | 2                    | 80 kA at 690 V a.c. | gG              | 73                 | 20            | CM32F Camaster range   |
| 4H07-660        | 690 V a.c.    | 4                    | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |
| 6H07-660        | 690 V a.c.    | 6                    | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |
| 10H07-660       | 690 V a.c.    | 10                   | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |
| 16H07-660       | 690 V a.c.    | 16                   | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |
| 20H07-660       | 690 V a.c.    | 20                   | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |
| 25H07-660       | 690 V a.c.    | 25                   | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |
| 32H07-660       | 690 V a.c.    | 32                   | 80 kA at 690 V a.c. | gG              | 73                 | 20            |                        |

##### Dimensions - mm



| Catalog numbers | A    | B  | C  | D  | E    | F    | G   | H   | J   |
|-----------------|------|----|----|----|------|------|-----|-----|-----|
| 2-32H07-660     | 82.3 | 73 | 52 | 22 | 22.4 | 11.5 | 8.7 | 7.7 | 5.4 |

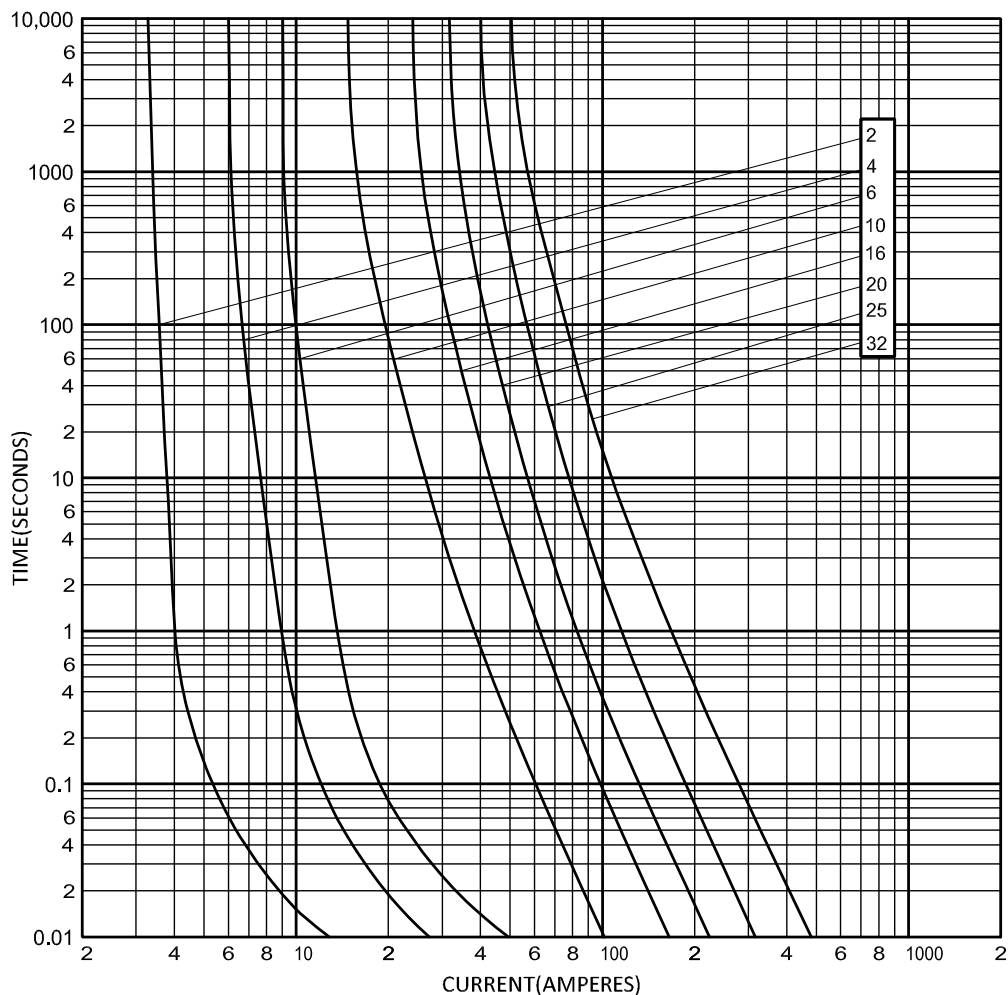
[Data sheet: 4150](#)

# Industrial and motor applications to BS88 - Standard

## Time-current curve

### Time-current curve

#### H07-660 - gG Fuse links



**I<sup>2</sup>t (Amps<sup>2</sup> Seconds)**

| Catalog number | Amp rating | Pre-arcing | Total at 460 V a.c. | Total at 690 V a.c. | Nom watts loss |
|----------------|------------|------------|---------------------|---------------------|----------------|
| 2H07-660       | 2          | 2          | 7                   | 15                  | 1.9            |
| 4H07-660       | 4          | 7          | 16                  | 50                  | 2.2            |
| 6H07-660       | 6          | 20         | 22                  | 220                 | 2.5            |
| 10H07-660      | 10         | 3          | 42                  | 200                 | 3              |
| 16H07-660      | 16         | 59         | 370                 | 1170                | 2.8            |
| 20H07-660      | 20         | 300        | 750                 | 2680                | 2.7            |
| 25H07-660      | 25         | 500        | 930                 | 3600                | 3.1            |
| 32H07-660      | 32         | 1080       | 2000                | 7800                | 4.2            |

## Special tags fuse links

### Specifications

#### Description

Fuse links for industrial applications with 690 V a.c. that meets dimensional and performance requirements of BS88 and IEC 60269-1-2 standards for large industrial installations up to 690 V a.c.

#### Technical data

Rated voltage: 690 V a.c. / 400 V d.c.  
 Rated current: 125 to 800 A  
 Breaking capacity: 80 kA

#### Standard/agency information

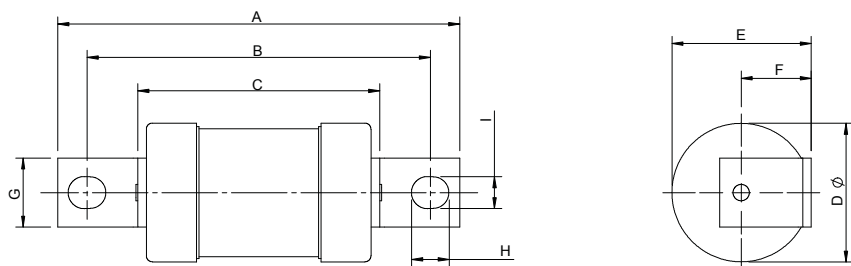
Meets BS88 Part 1 and 2, IEC 60269 parts 1 and 2, in accordance with RoHS 2011/65/IEC.

#### Product selection

##### M13, class gG, 690 V a.c. and 400 V d.c., 125 to 200 A, offset bolted tags

| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 125M13          | 690 V a.c. / 400 V d.c. | 125                  | 80 kA at 690 V a.c. | gG              | 99                 | 5             |
| 160M13          | 690 V a.c. / 400 V d.c. | 160                  | 80 kA at 690 V a.c. | gG              | 99                 | 5             |
| 200M13          | 690 V a.c. / 400 V d.c. | 200                  | 80 kA at 690 V a.c. | gG              | 99                 | 5             |

#### Dimensions - mm



| Catalog numbers | A   | B    | C    | D  | E  | F   | G    | H  | I   |
|-----------------|-----|------|------|----|----|-----|------|----|-----|
| 125-200M13      | 120 | 99.5 | 69.5 | 38 | 27 | 8.2 | 25.4 | 12 | 8.7 |

[Data sheet: 4163](#)

##### N15, class gG, 690 V a.c. and 400 V d.c., 250 and 315 A, offset bolted tags

| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 250N15          | 690 V a.c. / 400 V d.c. | 250                  | 80 kA at 690 V a.c. | gG              | 100                | 1             |
| 315N15          | 690 V a.c. / 400 V d.c. | 315                  | 80 kA at 690 V a.c. | gG              | 100                | 1             |

[Data sheet: 4164](#)

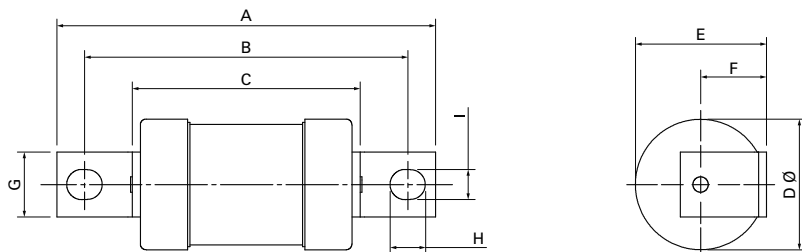
# Industrial and motor applications to BS88 - Standard

## Special tags fuse links

### Special tags fuse links

N15, class gG, 690 V a.c. and 400 V d.c., 250 and 315 A, offset bolted tags

Dimensions - mm



| Catalog numbers | A   | B   | C  | D  | E  | F    | G    | H  | I   |
|-----------------|-----|-----|----|----|----|------|------|----|-----|
| 250-315N15      | 120 | 100 | 79 | 49 | 41 | 16.4 | 25.4 | 15 | 9.5 |

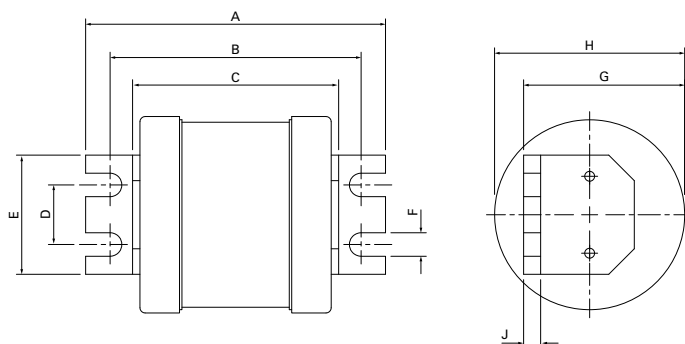
[Data sheet: 4164](#)

N20, class gG, 690 V a.c. and 400 V d.c., 120 to 315 A, special offset tags



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 125N20          | 690 V a.c. / 400 V d.c. | 125                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |
| 160N20          | 690 V a.c. / 400 V d.c. | 160                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |
| 200N20          | 690 V a.c. / 400 V d.c. | 200                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |
| 250N20          | 690 V a.c. / 400 V d.c. | 250                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |
| 315N20          | 690 V a.c. / 400 V d.c. | 315                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |

Dimensions - mm



| Catalog numbers | A   | B    | C  | D  | E    | F   | G  | H  | J   |
|-----------------|-----|------|----|----|------|-----|----|----|-----|
| 125-315N20      | 110 | 92.5 | 75 | 22 | 44.5 | 8.8 | 49 | 49 | 6.4 |

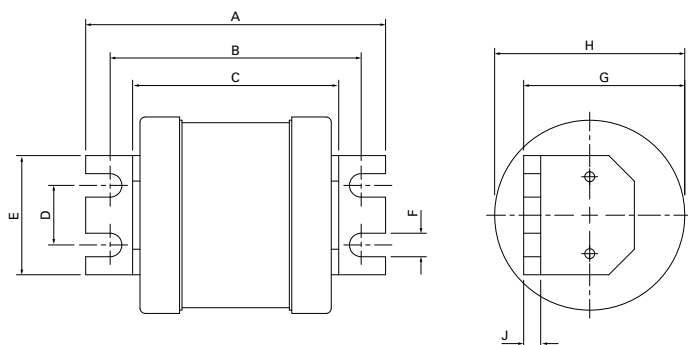
[Data sheet: 4166](#)

## Special tags fuse links

### P20, class gG, 690 V a.c. and 400 V d.c., 355 and 400 A, special offset tags

| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 355P20          | 690 V a.c. / 400 V d.c. | 355                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |
| 400P20          | 690 V a.c. / 400 V d.c. | 400                  | 80 kA at 690 V a.c. | gG              | 92.5               | 1             |

### Dimensions - mm



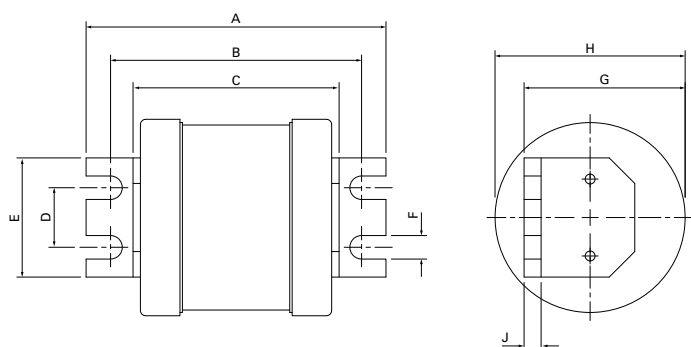
| Catalog numbers | A   | B    | C  | D  | E    | F   | G  | H  | J   |
|-----------------|-----|------|----|----|------|-----|----|----|-----|
| 355-400P20      | 111 | 92.5 | 76 | 22 | 44.5 | 8.8 | 47 | 59 | 6.4 |

[Data sheet: 4167](#)

### R20, class gG, 690 V a.c. and 400 V d.c., 450 to 630 A, special offset tags

| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 450R20          | 690 V a.c. / 400 V d.c. | 450                  | 80 kA at 690 V a.c. | gG              | 94                 | 1             |
| 500R20          | 690 V a.c. / 400 V d.c. | 500                  | 80 kA at 690 V a.c. | gG              | 94                 | 1             |
| 560R20          | 690 V a.c. / 400 V d.c. | 560                  | 80 kA at 690 V a.c. | gG              | 94                 | 1             |
| 630R20          | 690 V a.c. / 400 V d.c. | 630                  | 80 kA at 690 V a.c. | gG              | 94                 | 1             |

### Dimensions - mm



| Catalog numbers | A   | B  | C  | D  | E    | F   | G  | H  | J   |
|-----------------|-----|----|----|----|------|-----|----|----|-----|
| 450-630R20      | 112 | 94 | 77 | 22 | 44.5 | 8.8 | 62 | 74 | 6.4 |

[Data sheet: 4168](#)

# Industrial and motor applications to BS88 - Standard

## Special tags fuse links

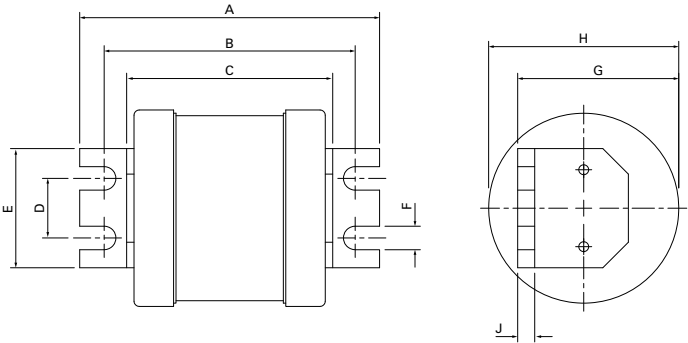
### Special tags fuse links

#### S20, class gG, 550 V a.c. and 250 V d.c., 710 and 800 A, special offset tags



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 710S20          | 550 V a.c. / 250 V d.c. | 710                  | 80 kA at 550 V a.c. | gG              | 94                 | 1             |
| 800S20          | 550 V a.c. / 250 V d.c. | 800                  | 80 kA at 550 V a.c. | gG              | 94                 | 1             |

#### Dimensions - mm



| Catalog numbers | A   | B  | C  | D  | E    | F   | G  | H  | J   |
|-----------------|-----|----|----|----|------|-----|----|----|-----|
| 710-800S20      | 112 | 94 | 77 | 22 | 44.5 | 8.8 | 66 | 83 | 6.4 |

Data sheet: E5785045

### Offset bolted tags fuse links

#### Specifications

##### Description

A range of BS fuse links in sizes A1 to A4 specifically designed for the protection of general industrial applications e.g. power distribution, cable protection, motor protection.

##### Technical data

Rated voltage:

- Size A1: 550 V a.c. / 250 V d.c.
- Size A2 to A4: 660-690 V a.c. / up to 460 V d.c. see tables for details

Rated current: 2 to 200 A

Breaking capacity: 80 kA up to 690 V a.c., see tables for details

##### Standard/agency information

BS88-1 and 2, IEC 60269-2

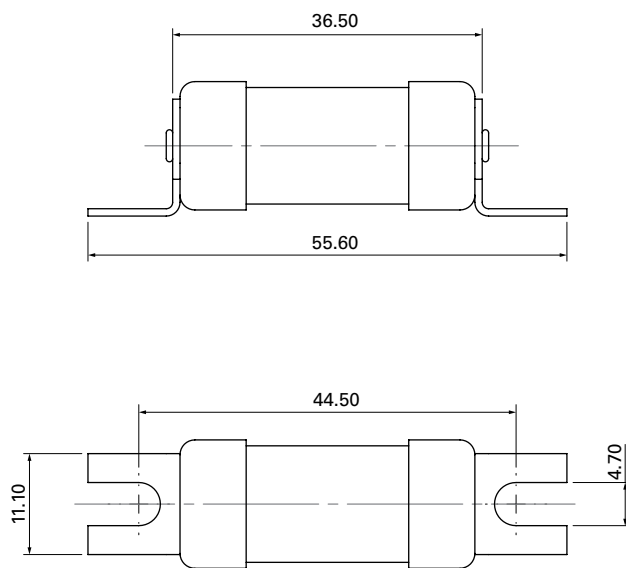
#### Product selection

##### NIT, class gG, 550 V a.c. and 250 V d.c., 2 to 20 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holders |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|-------------------------|
| NIT2            | 550 V a.c. / 250 V d.c. | 2                    | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            | CM32FC<br>Camaster ange |
| NIT4            | 550 V a.c. / 250 V d.c. | 4                    | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                         |
| NIT6            | 550 V a.c. / 250 V d.c. | 6                    | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            | RS20 Red Spot<br>range  |
| NIT10           | 550 V a.c. / 250 V d.c. | 10                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                         |
| NIT16           | 550 V a.c. / 250 V d.c. | 16                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                         |
| NIT20           | 550 V a.c. / 250 V d.c. | 20                   | 80 kA at 550 V a.c. | gG              | A1           | 44                 | 20            |                         |

##### Dimensions - mm



[Data sheet: 10020](#)

# Industrial and motor applications to BS88 - Red spot

Offset bolted tags fuse links

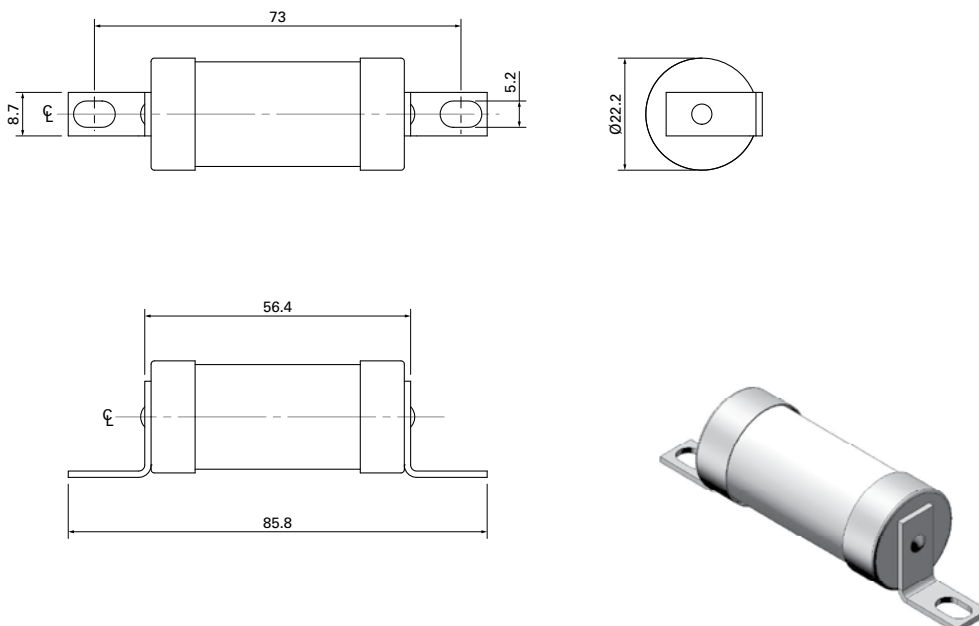
## Offset bolted tags fuse links

TIA, class gG, 660-690 V a.c. and 460 V d.c., 2 to 32 A - class gM, 660-690 V a.c. and 460 V d.c., 32 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holders |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|-------------------------|
| TIA2            | 660-690 V a.c. / 460 V d.c. | 2                    | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            | CM32F range             |
| TIA4            | 660-690 V a.c. / 460 V d.c. | 4                    | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            | RS32 range              |
| TIA6            | 660-690 V a.c. / 460 V d.c. | 6                    | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            |                         |
| TIA10           | 660-690 V a.c. / 460 V d.c. | 10                   | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            |                         |
| TIA16           | 660-690 V a.c. / 460 V d.c. | 16                   | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            |                         |
| TIA20           | 660-690 V a.c. / 460 V d.c. | 20                   | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            |                         |
| TIA25           | 660-690 V a.c. / 460 V d.c. | 25                   | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            |                         |
| TIA32           | 660-690 V a.c. / 460 V d.c. | 32                   | 80 kA at 690 V a.c. | gG              | A2           | 73                 | 20            |                         |
| TIA32M35        | 660-690 V a.c. / 460 V d.c. | 32M35                | 80 kA at 690 V a.c. | gM              | A2           | 73                 | 20            |                         |
| TIA32M40        | 660-690 V a.c. / 460 V d.c. | 32M40                | 80 kA at 690 V a.c. | gM              | A2           | 73                 | 20            |                         |
| TIA32M50        | 660-690 V a.c. / 460 V d.c. | 32M50                | 80 kA at 690 V a.c. | gM              | A2           | 73                 | 20            |                         |
| TIA32M63        | 660-690 V a.c. / 460 V d.c. | 32M63                | 80 kA at 690 V a.c. | gM              | A2           | 73                 | 20            |                         |

### Dimensions - mm



[Data sheet: 10020](#)



TIS, class gG, 660-690 V a.c. and 460 V d.c., 35 to 63 A - class gM, 660-690 V a.c. and 460 V d.c., 63 A

| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| TIS35           | 660-690 V a.c. / 460 V d.c. | 35                   | 80 kA at 690 V a.c. | gG              | A3           | 73                 | 20            | RS63 range             |
| TIS40           | 660-690 V a.c. / 460 V d.c. | 40                   | 80 kA at 690 V a.c. | gG              | A3           | 73                 | 20            |                        |
| TIS50           | 660-690 V a.c. / 460 V d.c. | 50                   | 80 kA at 690 V a.c. | gG              | A3           | 73                 | 20            |                        |
| TIS63           | 660-690 V a.c. / 460 V d.c. | 63                   | 80 kA at 690 V a.c. | gG              | A3           | 73                 | 20            |                        |
| TIS63M80        | 660-690 V a.c. / 460 V d.c. | 63M80                | 80 kA at 690 V a.c. | gM              | A3           | 73                 | 20            |                        |
| TIS63M100       | 660-690 V a.c. / 460 V d.c. | 63M100               | 80 kA at 690 V a.c. | gM              | A3           | 73                 | 20            |                        |

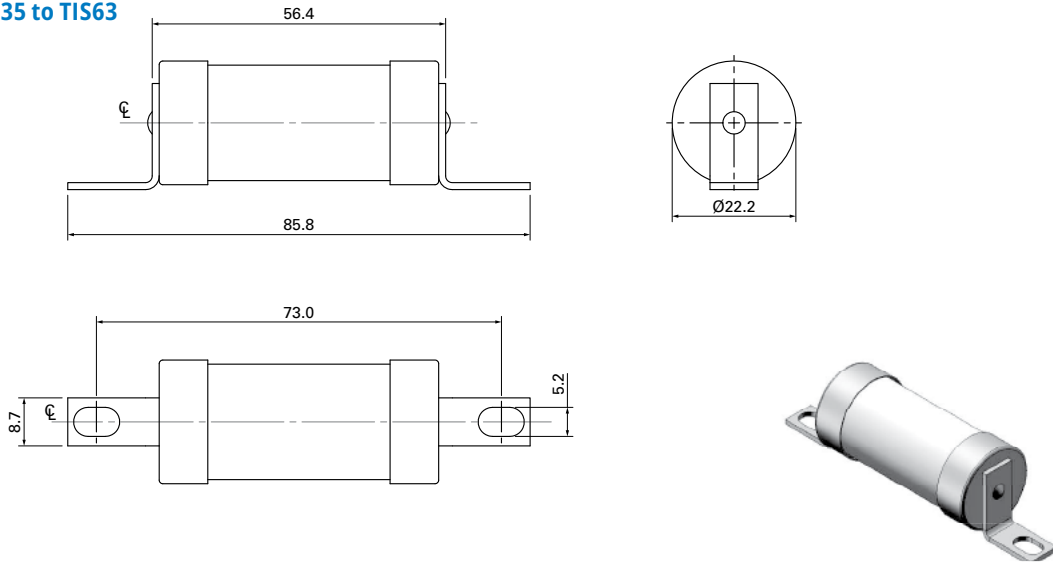
[Data sheet: 10020](#)

## Offset bolted tags fuse links

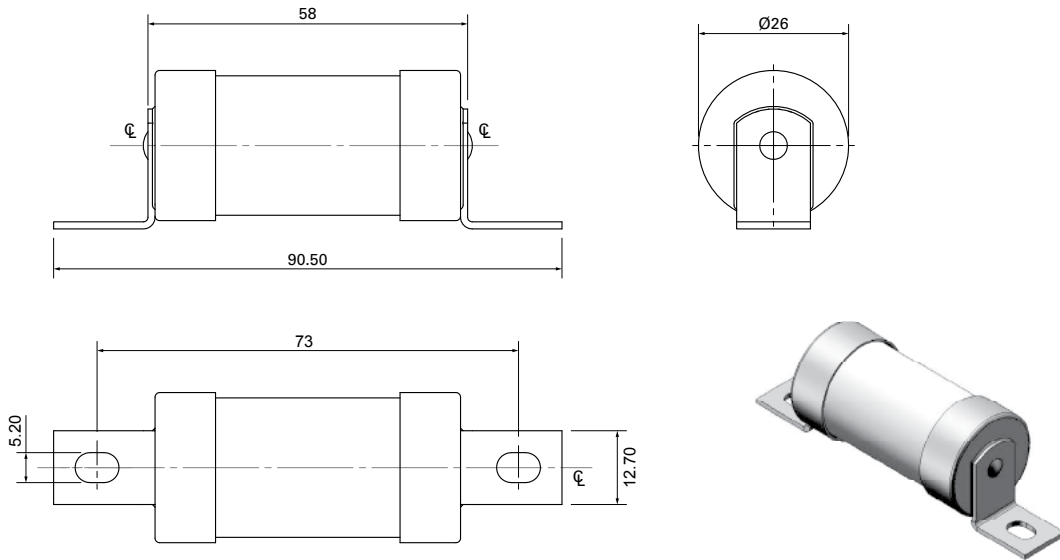
TIS, class gG, 660-690 V a.c. and 460 V d.c., 35 to 63 A - class gM, 660-690 V a.c. and 460 V d.c., 63 A

Dimensions - mm

**TIS35 to TIS63**



**TIS63M80 and TIS63M100**



[Data sheet: 10020](#)

# Industrial and motor applications to BS88 - Red spot

Offset bolted tags fuse links

## Offset bolted tags fuse links

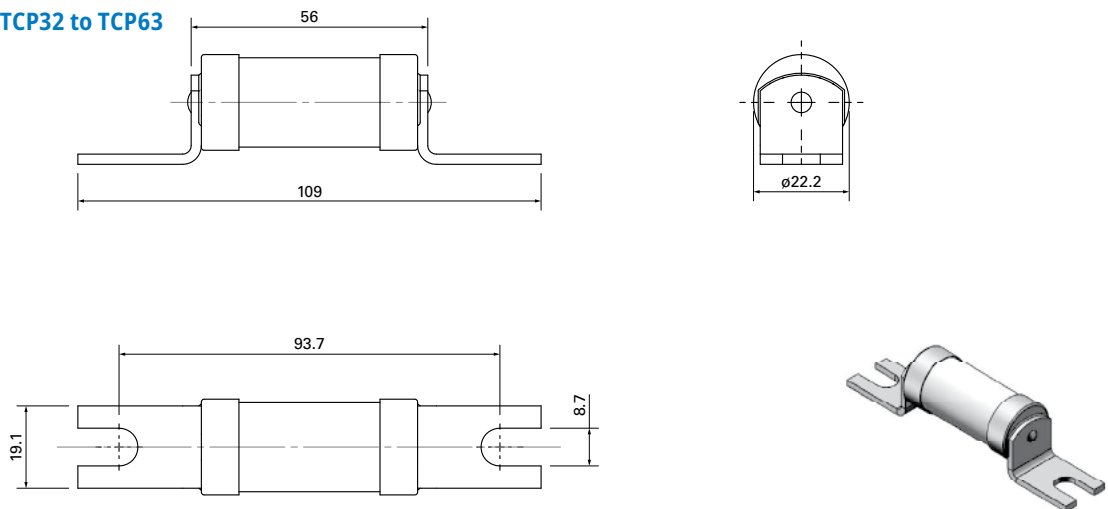
TCP, class gG, 660-690 V a.c. and 350-460 V d.c., 32 to 100 A - class gM, 660-690 V a.c. and 350 V d.c., 100 A



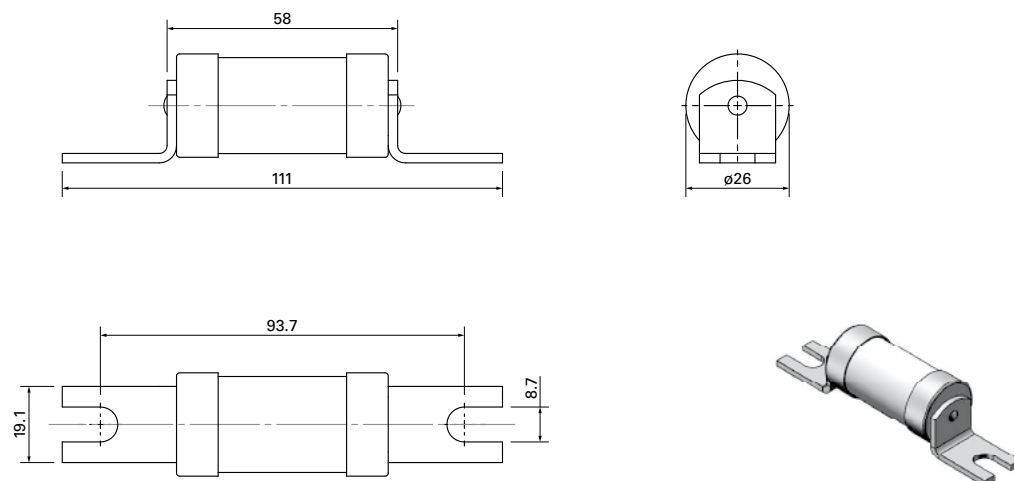
| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| TCP32           | 660-690 V a.c. / 460 V d.c. | 32                   | 80 kA at 690 V a.c. | gG              | A4           | 94                 | 20            | RS100 range            |
| TCP40           | 660-690 V a.c. / 460 V d.c. | 40                   | 80 kA at 690 V a.c. | gG              | A4           | 94                 | 20            |                        |
| TCP50           | 660-690 V a.c. / 460 V d.c. | 50                   | 80 kA at 690 V a.c. | gG              | A4           | 94                 | 20            |                        |
| TCP63           | 660-690 V a.c. / 460 V d.c. | 63                   | 80 kA at 690 V a.c. | gG              | A4           | 94                 | 20            |                        |
| TCP80           | 660-690 V a.c. / 350 V d.c. | 80                   | 80 kA at 690 V a.c. | gG              | A4           | 94                 | 20            |                        |
| TCP100          | 660-690 V a.c. / 350 V d.c. | 100                  | 80 kA at 690 V a.c. | gG              | A4           | 94                 | 20            |                        |
| TCP100M125      | 660-690 V a.c. / 350 V d.c. | 100M125              | 80 kA at 690 V a.c. | gM              | A4           | 94                 | 20            |                        |
| TCP100M160      | 660-690 V a.c. / 350 V d.c. | 100M160              | 80 kA at 690 V a.c. | gM              | A4           | 94                 | 20            |                        |
| TCP100M200      | 660-690 V a.c. / 350 V d.c. | 100M200              | 80 kA at 690 V a.c. | gM              | A4           | 94                 | 20            |                        |

### Dimensions - mm

#### TCP32 to TCP63



#### TCP80 and TCP100



#### TCP80 and TCP100

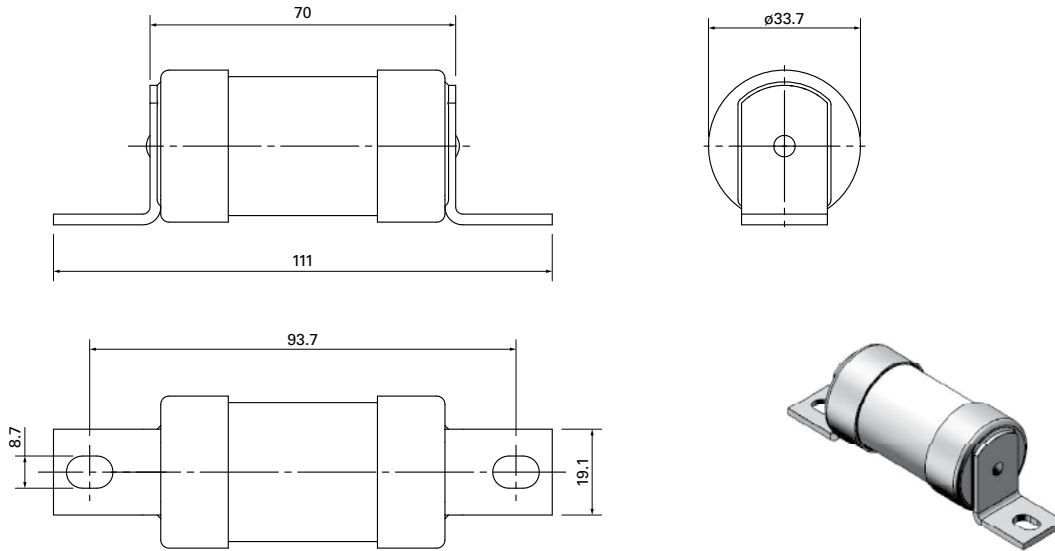
[Data sheet: 10020](#)

## Offset bolted tags fuse links

TCP, class gG, 660-690 V a.c. and 350-460 V d.c., 32 to 100 A - class gM, 660-690 V a.c. and 350 V d.c., 100 A

Dimensions - mm

### TCP100M125 to TCP100M200

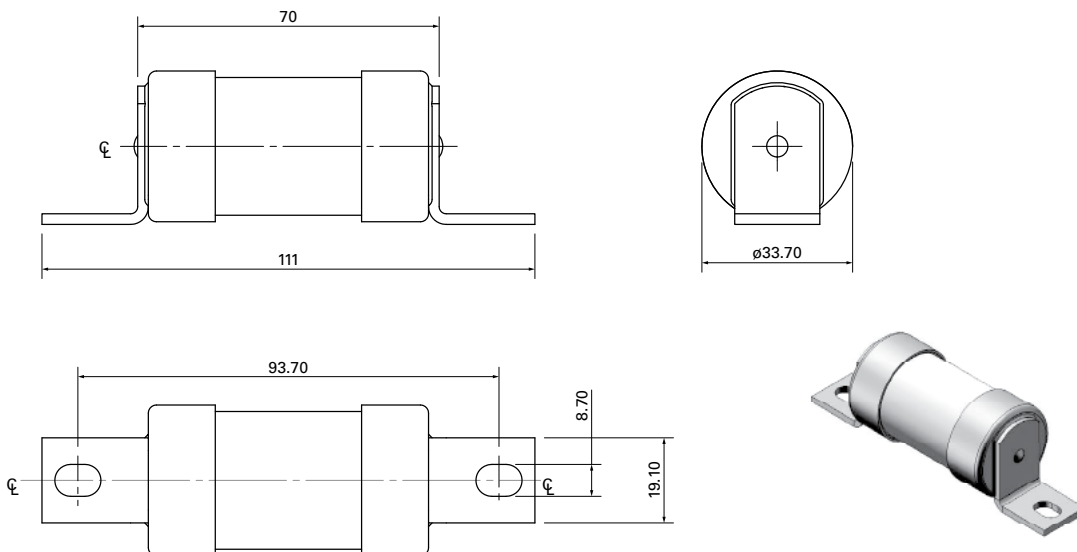


TFP, class gG, 660-690 V a.c. and 350 V d.c., 125 to 200 A - class gM, 660-690 V a.c. and 350 V d.c., 200 A

| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| TFP125          | 660-690 V a.c. / 350 V d.c. | 125                  | 80 kA at 690 V a.c. | gG              | 94                 | 10            |
| TFP160          | 660-690 V a.c. / 350 V d.c. | 160                  | 80 kA at 690 V a.c. | gG              | 94                 | 10            |
| TFP200          | 660-690 V a.c. / 350 V d.c. | 200                  | 80 kA at 690 V a.c. | gG              | 94                 | 10            |
| TFP200M250      | 660-690 V a.c. / 350 V d.c. | 200M250              | 80 kA at 690 V a.c. | gM              | 94                 | 1             |

Dimensions - mm

### TFP125 to TFP200



[Data sheet: 10020](#)

## Industrial and motor applications to BS88 - Red spot

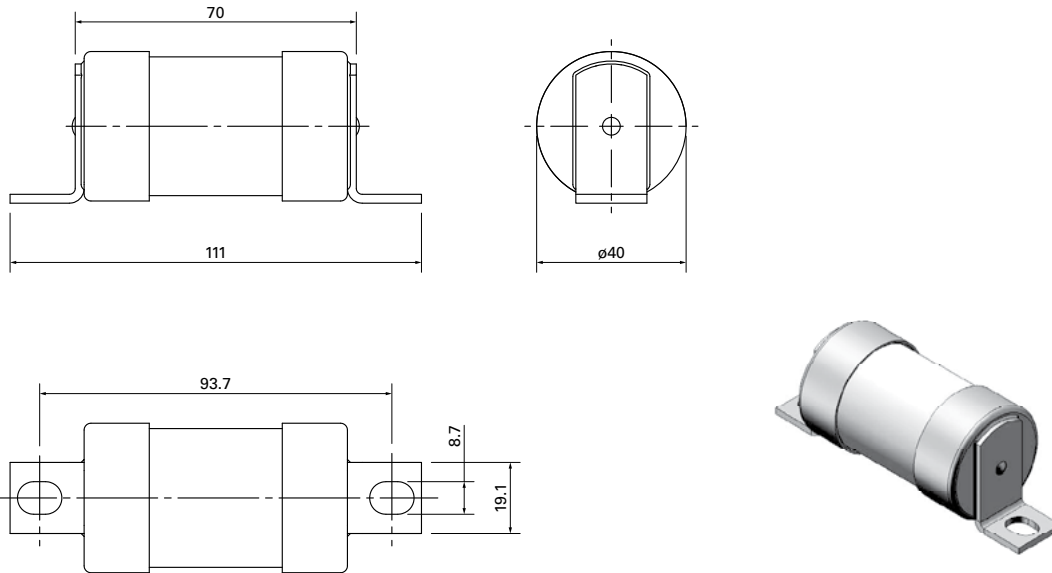
Offset bolted tags fuse links

### Offset bolted tags fuse links

TFP, class gG, 660-690 V a.c. and 350 V d.c., 125 to 200 A - class gM, 660-690 V a.c. and 350 V d.c., 200 A

Dimensions - mm

**TFP200M250**



[Data sheet: 10020](#)

## Centre bolted tags fuse links

### Specifications

#### Description

A range of centre tagged BS fuse links in sizes B1 to B4, C1 to C3 and D1 specifically designed for the protection of general industrial applications, e.g. power distribution, cable protection, motor protection.

#### Technical data

Rated voltage:

- gG: up to 690 V a.c. / 460 V d.c., see tables for details
- gM: up to 690 V a.c. / 550 V d.c., see tables for details

Rated current: 2 to 1250 A

Breaking capacity: 80 kA up to 690 V a.c., see tables for details

#### Standard/agency information

BS88-2 and IEC 60269-2

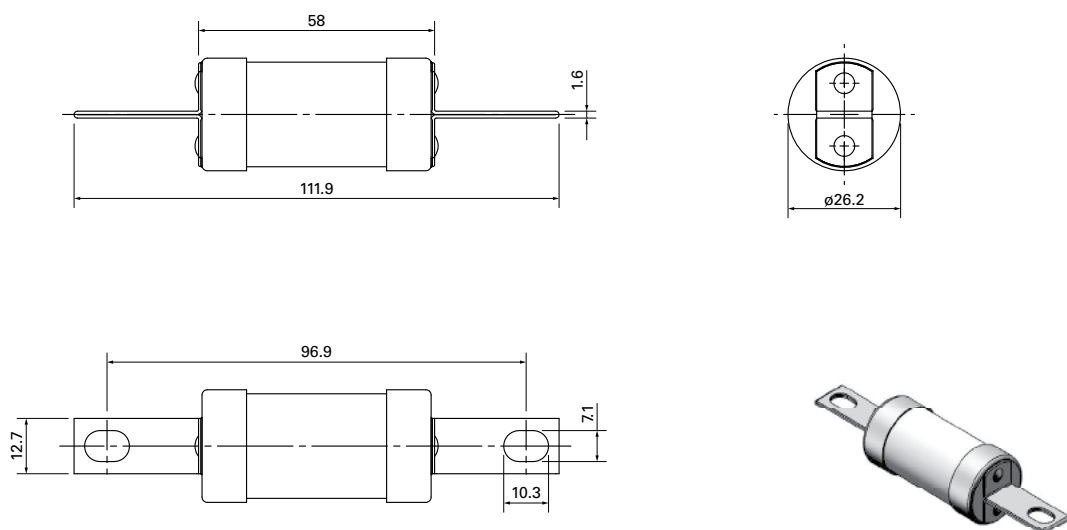
#### Product selection

##### TB, class gG, 660 V a.c. and 460 V d.c., 4 to 63 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| TB4             | 660 V a.c. / 460 V d.c. | 4                    | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB6             | 660 V a.c. / 460 V d.c. | 6                    | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB10            | 660 V a.c. / 460 V d.c. | 10                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB16            | 660 V a.c. / 460 V d.c. | 16                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB20            | 660 V a.c. / 460 V d.c. | 20                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB25            | 660 V a.c. / 460 V d.c. | 25                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB32            | 660 V a.c. / 460 V d.c. | 32                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB40            | 660 V a.c. / 460 V d.c. | 40                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB50            | 660 V a.c. / 460 V d.c. | 50                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |
| TB63            | 660 V a.c. / 460 V d.c. | 63                   | 80 kA at 660 V a.c. | gG              | 97                 | 20            |

#### Dimensions - mm



[Data sheet: 10078](#)

# Industrial and motor applications to BS88 - Red spot

Centre bolted tags fuse links

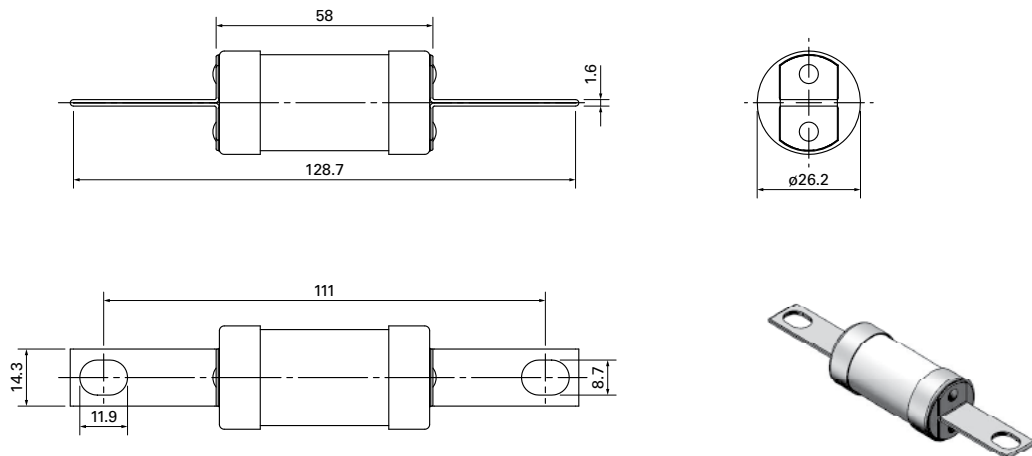
## Centre bolted tags fuse links

TBC, class gG, 660 V a.c. and 460 V d.c., 2 to 63 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| TBC2            | 660 V a.c. / 460 V d.c. | 2                    | 80 kA at 660 V a.c. | gG              | 111                | 20            | RS200 Red Spot range   |
| TBC4            | 660 V a.c. / 460 V d.c. | 4                    | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC6            | 660 V a.c. / 460 V d.c. | 6                    | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC10           | 660 V a.c. / 460 V d.c. | 10                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC16           | 660 V a.c. / 460 V d.c. | 16                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC20           | 660 V a.c. / 460 V d.c. | 20                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC25           | 660 V a.c. / 460 V d.c. | 25                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC32           | 660 V a.c. / 460 V d.c. | 32                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC40           | 660 V a.c. / 460 V d.c. | 40                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC50           | 660 V a.c. / 460 V d.c. | 50                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |
| TBC63           | 660 V a.c. / 460 V d.c. | 63                   | 80 kA at 660 V a.c. | gG              | 111                | 20            |                        |

Dimensions - mm



[Data sheet: 10078](#)

TC, class gG, 660-690 V a.c. and 350 V d.c., 80 and 100 A - class gM, 660-690 V a.c. and 350 V d.c., 100 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| TC80            | 660-690 V a.c. / 350 V d.c. | 80                   | 80 kA at 690 V a.c. | gG              | B1           | 111                | 10            | RS200 Red Spot range   |
| TC100           | 660-690 V a.c. / 350 V d.c. | 100                  | 80 kA at 690 V a.c. | gG              | B1           | 111                | 10            |                        |
| TC100M125       | 660-690 V a.c. / 350 V d.c. | 100M125              | 80 kA at 690 V a.c. | gM              | B1           | 111                | 10            |                        |
| TC100M160       | 660-690 V a.c. / 350 V d.c. | 100M160              | 80 kA at 690 V a.c. | gM              | B1           | 111                | 10            |                        |
| TC100M200       | 660-690 V a.c. / 350 V d.c. | 100M200              | 80 kA at 690 V a.c. | gM              | B1           | 111                | 10            |                        |

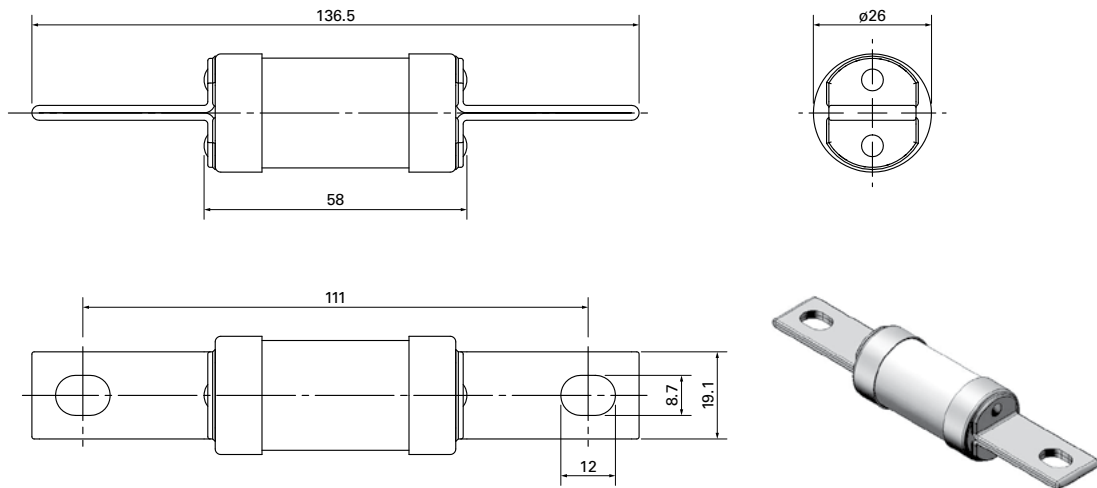
[Data sheet: 10078](#)

## Centre bolted tags fuse links

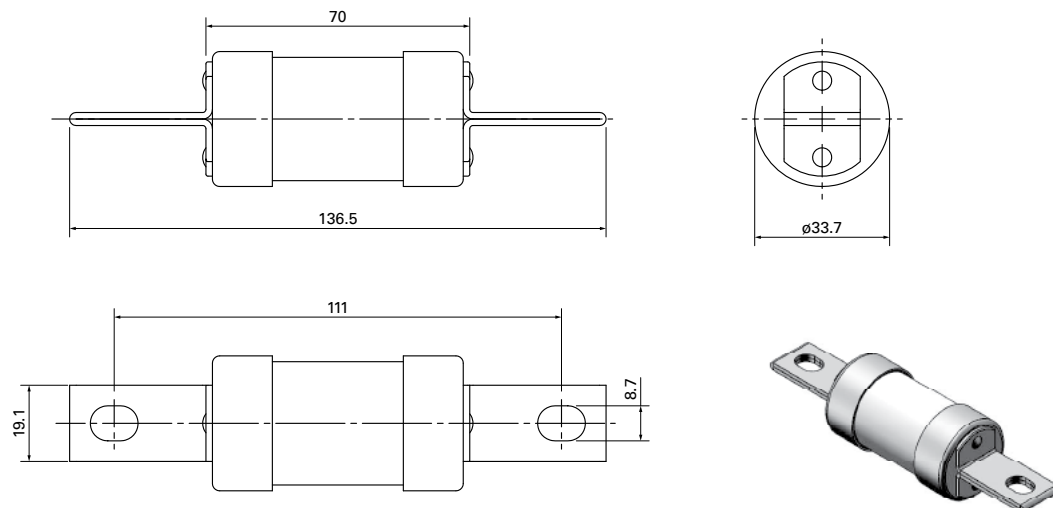
TC, class gG, 660-690 V a.c. and 350 V d.c., 80 and 100 A - class gM, 660-690 V a.c. and 350 V d.c., 100 A

Dimensions - mm

### TC80 and TC100



### TC100M125 to TC100M200



[Data sheet: 10078](#)

# Industrial and motor applications to BS88 - Red spot

Centre bolted tags fuse links

## Centre bolted tags fuse links

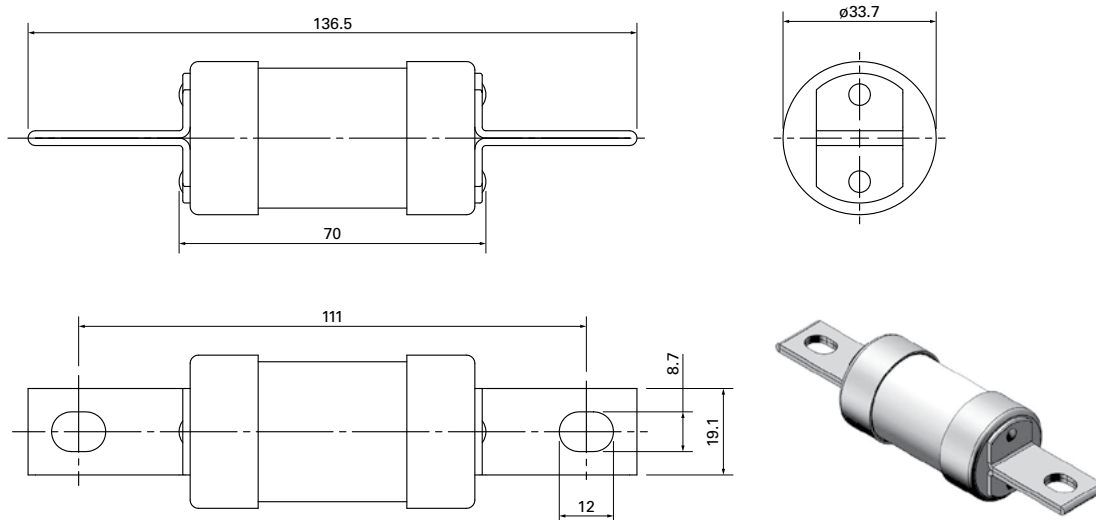
TF, class gG, 660-690 V a.c and 350 V d.c., 125 to 200 A - class gM, 500-660-690 V a.c and 460 V d.c., 200 A



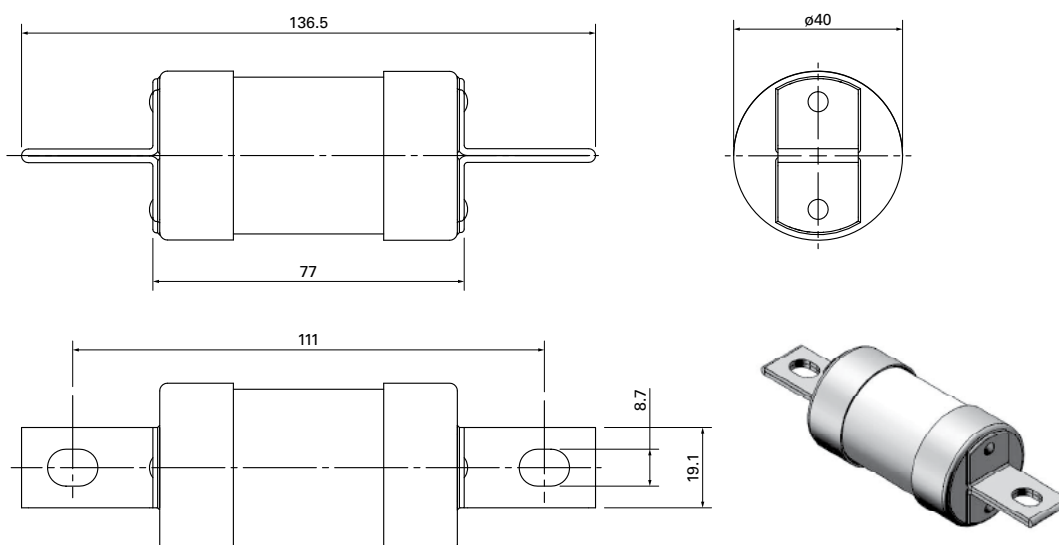
| Catalog numbers | Rated voltage              | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| TF125           | 660-690 V a.c., 350 V d.c. | 125                  | 80 kA at 690 V a.c. | gG              | B2           | 111                | 10            | RS200 range            |
| TF160           | 660-690 V a.c., 350 V d.c. | 160                  | 80 kA at 690 V a.c. | gG              | B2           | 111                | 10            |                        |
| TF200           | 660-690 V a.c., 350 V d.c. | 200                  | 80 kA at 690 V a.c. | gG              | B2           | 111                | 10            |                        |
| TF200M250       | 660-690 V a.c., 460 V d.c. | 200M250              | 80 kA at 690 V a.c. | gM              | B2           | 111                | 10            |                        |
| TF200M315       | 550 V a.c.                 | 200M315              | 80 kA at 550 V a.c. | gM              | B2           | 111                | 10            |                        |

### Dimensions - mm

#### TF125 to TF200



#### TF200M250 and TF200M315



[Data sheet: 10078](#)

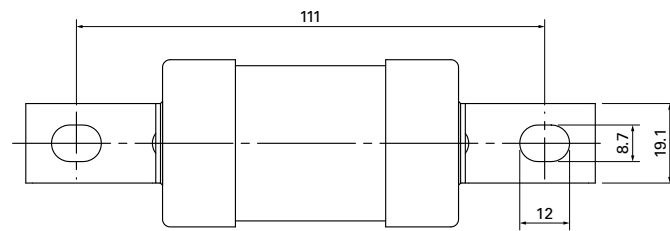
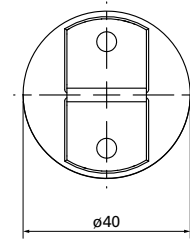
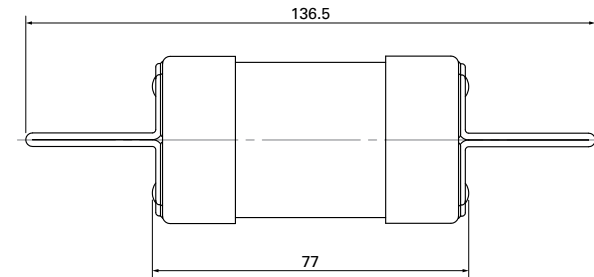
## Centre bolted tags fuse links

TKF, class gG, 660-690 V a.c and 460 V d.c., 250 and 315 A - class gM, 660-690 V a.c and 460 V d.c., 315 A

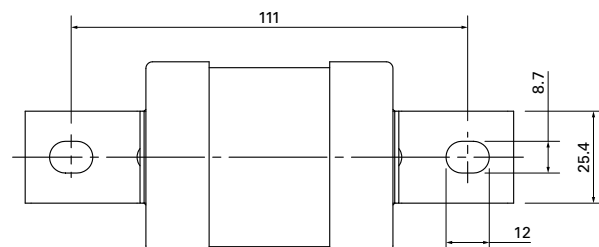
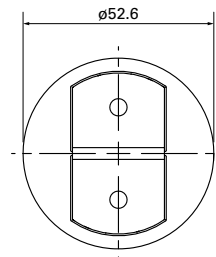
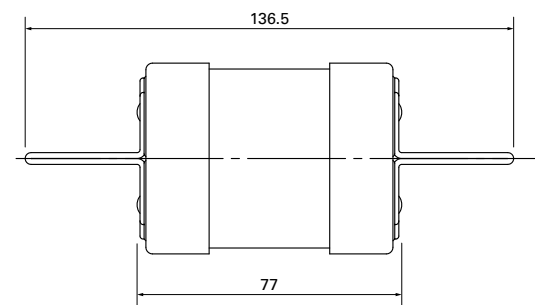
| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| TKF250          | 660-690 V a.c. / 460 V d.c. | 250                  | 80 kA at 690 V a.c. | gG              | B3           | 111                | 5             |
| TKF315          | 660-690 V a.c. / 460 V d.c. | 315                  | 80 kA at 690 V a.c. | gG              | B3           | 111                | 5             |
| TKF315M355      | 660-690 V a.c. / 460 V d.c. | 315M355              | 80 kA at 690 V a.c. | gM              | B3           | 111                | 5             |

### Dimensions - mm

#### TKF250



#### TKF315 and TKF315M355



[Data sheet: 10078](#)

# Industrial and motor applications to BS88 - Red spot

Centre bolted tags fuse links

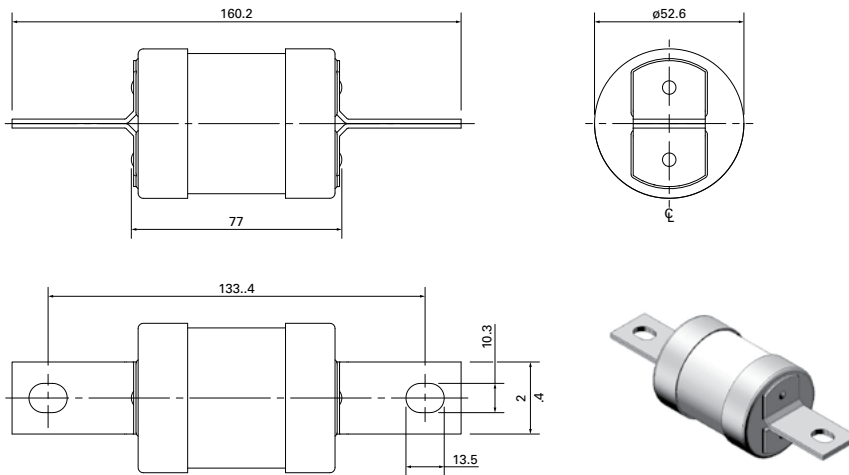
## Centre bolted tags fuse links

TKM, class gG, 660-690 V a.c and 460 V d.c., 250 and 315 A - class gM, 660-690 V a.c and 460 V d.c., 315 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| TKM250          | 660-690 V a.c. / 460 V d.c. | 250                  | 80 kA at 690 V a.c. | gG              | 133                | 1             | RS400 range            |
| TKM315          | 660-690 V a.c. / 460 V d.c. | 315                  | 80 kA at 690 V a.c. | gG              | 133                | 1             |                        |
| TKM315M355      | 660-690 V a.c. / 460 V d.c. | 315M355              | 80 kA at 690 V a.c. | gM              | 133                | 1             |                        |

### Dimensions - mm



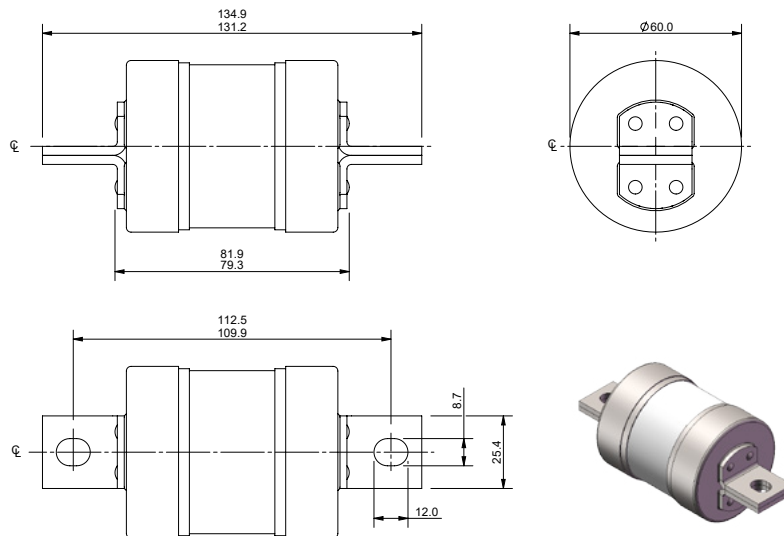
Data sheet: [10078](#)

TMF, class gG, 660-690 V a.c and 460 V d.c., 355 and 400 A - class gM, 660-690 V a.c and 460 V d.c., 400 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| TMF355          | 660-690 V a.c. / 460 V d.c. | 355                  | 80 kA at 690 V a.c. | gG              | B4           | 111                | 1             |
| TMF400          | 660-690 V a.c. / 460 V d.c. | 400                  | 80 kA at 690 V a.c. | gG              | B4           | 111                | 1             |
| TMF400M450      | 660-690 V a.c. / 460 V d.c. | 400M450              | 80 kA at 690 V a.c. | gM              | B4           | 111                | 1             |

### Dimensions - mm



Data sheet: [10078](#)

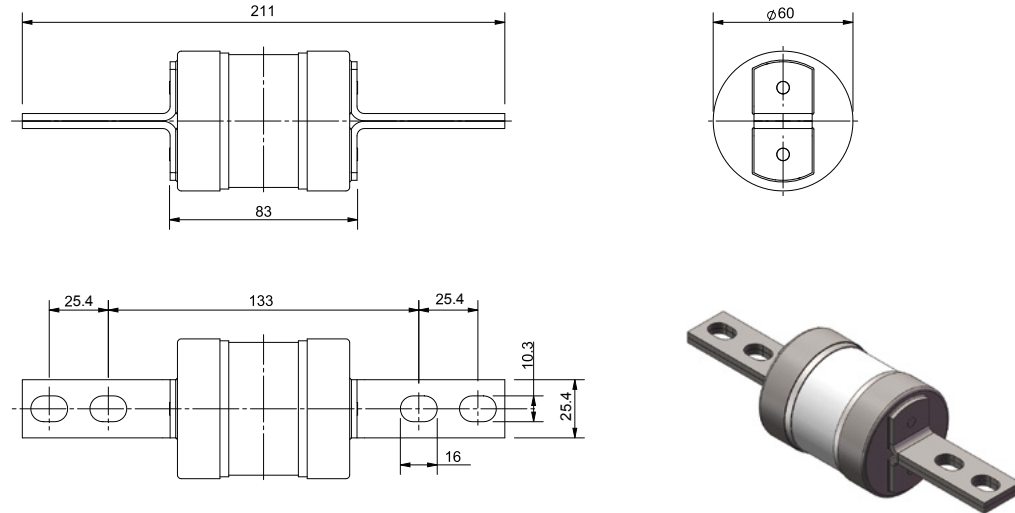
## Centre bolted tags fuse links

TM, class gG, 660-690 V a.c and 460 V d.c., 355 and 400 A - class gM, 660-690 V a.c and 460 V d.c., 400 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|------------------------|
| TM355           | 660-690 V a.c. / 460 V d.c. | 355                  | 80 kA at 690 V a.c. | gG              | C1           | 133/184            | 1             | RS400                  |
| TM400           | 660-690 V a.c. / 460 V d.c. | 400                  | 80 kA at 690 V a.c. | gG              | C1           | 133/184            | 1             |                        |
| TM400M450       | 660-690 V a.c. / 460 V d.c. | 400M450              | 80 kA at 690 V a.c. | gM              | C1           | 133/184            | 1             |                        |

### Dimensions - mm

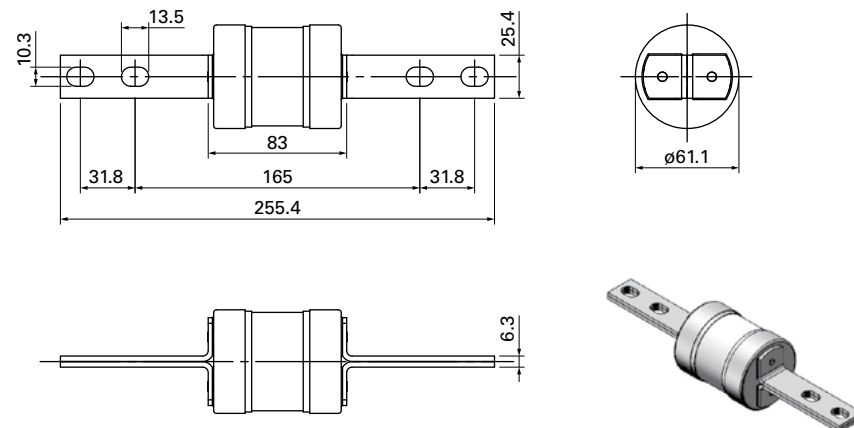


[Data sheet: 10078](#)

TMT, class gG, 660 V a.c., 355 and 400 A

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|
| TMT355          | 660 V a.c.    | 355                  | 80 kA at 660 V a.c. | gG              | 165                | 1             |
| TMT400          | 660 V a.c.    | 400                  | 80 kA at 660 V a.c. | gG              | 165                | 1             |

### Dimensions - mm



[Data sheet: 10078](#)

# Industrial and motor applications to BS88 - Red spot

Centre bolted tags fuse links

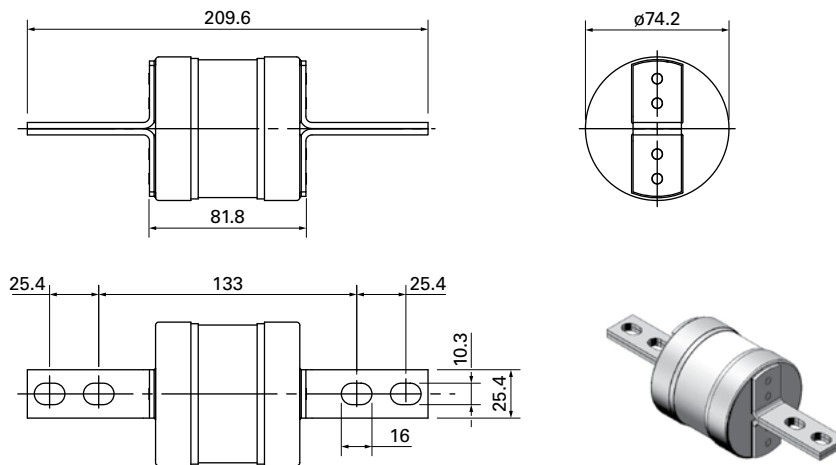
## Centre bolted tags fuse links

TTM, class gG, 660-690 V a.c and 450 V d.c., 450 to 630 A - class gM, 660-690 V a.c and 450 V d.c., 630 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| TTM450          | 660-690 V a.c. / 450 V d.c. | 450                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| TTM500          | 660-690 V a.c. / 450 V d.c. | 500                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| TTM560          | 660-690 V a.c. / 450 V d.c. | 560                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| TTM630          | 660-690 V a.c. / 450 V d.c. | 630                  | 80 kA at 690 V a.c. | gG              | C2           | 133/184            | 1             |
| TTM630M670      | 660-690 V a.c. / 450 V d.c. | 630M670              | 80 kA at 690 V a.c. | gM              | C2           | 133/184            | 1             |

### Dimensions - mm



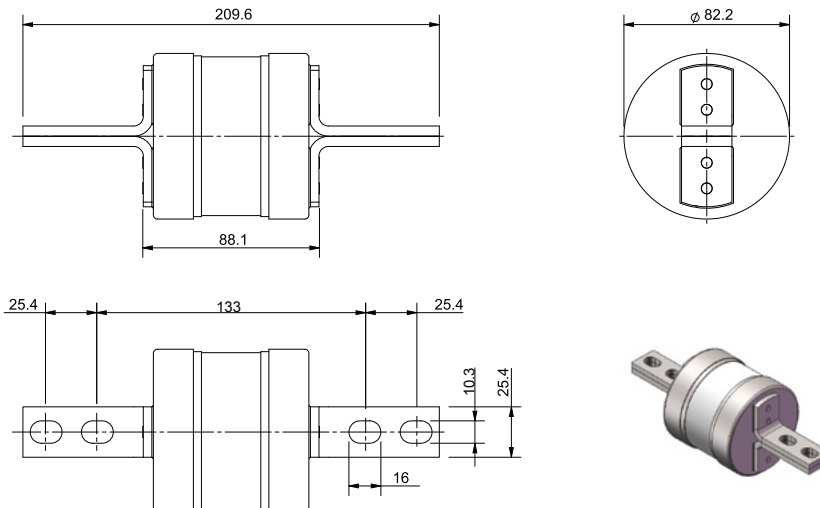
Data sheet: [10078](#)

TLM, class gG, 660-690 V a.c. and 350 V d.c., 670 to 750 A



| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| TLM670          | 660-690 V a.c. / 350 V d.c. | 670                  | 80 kA at 690 V a.c. | gG              | C3           | 133/184            | 1             |
| TLM710          | 660-690 V a.c. / 350 V d.c. | 710                  | 80 kA at 690 V a.c. | gG              | C3           | 133/184            | 1             |
| TLM750          | 660-690 V a.c. / 350 V d.c. | 750                  | 80 kA at 690 V a.c. | gG              | C3           | 133/184            | 1             |
| TLM800          | 660-690 V a.c. / 350 V d.c. | 800                  | 80 kA at 690 V a.c. | gG              | C3           | 133/184            | 1             |

### Dimensions - mm



Data sheet: [10078](#)

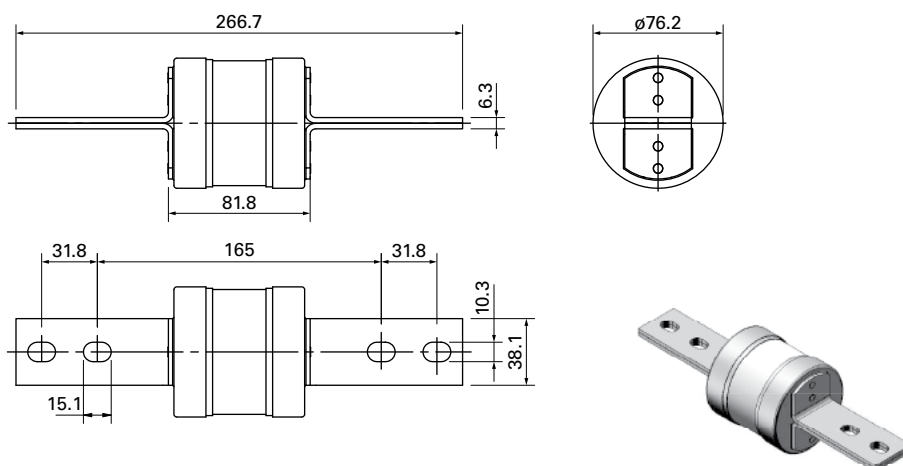
## Centre bolted tags fuse links

### TT, class gG, 660 V a.c. and 450 V d.c., 500 to 630 A



| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------------|---------------|
| TT500           | 660 V a.c. / 450 V d.c. | 500                  | 80 kA at 660 V a.c. | gG              | 165                | 1             |
| TT560           | 660 V a.c. / 450 V d.c. | 560                  | 80 kA at 660 V a.c. | gG              | 165                | 1             |
| TT630           | 660 V a.c. / 450 V d.c. | 630                  | 80 kA at 660 V a.c. | gG              | 165                | 1             |

### Dimensions - mm

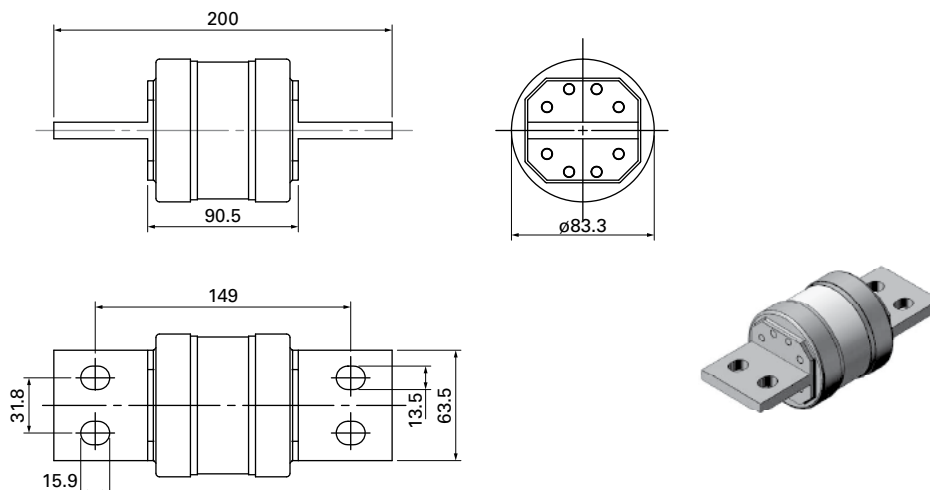


[Data sheet: 10078](#)

### TLU, class gG, 660 V a.c. and 350 V d.c., 560 to 800 A

| Catalog numbers | Rated voltage           | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| TLU560          | 660 V a.c. / 350 V d.c. | 560                  | 80 kA at 660 V a.c. | gG              | D1           | 149                | 1             |
| TLU630          | 660 V a.c. / 350 V d.c. | 630                  | 80 kA at 660 V a.c. | gG              | D1           | 149                | 1             |
| TLU750          | 660 V a.c. / 350 V d.c. | 750                  | 80 kA at 660 V a.c. | gG              | D1           | 149                | 1             |
| TLU800          | 660 V a.c. / 350 V d.c. | 800                  | 80 kA at 660 V a.c. | gG              | D1           | 149                | 1             |

### Dimensions - mm



[Data sheet: 10078](#)

# Industrial and motor applications to BS88 - Red spot

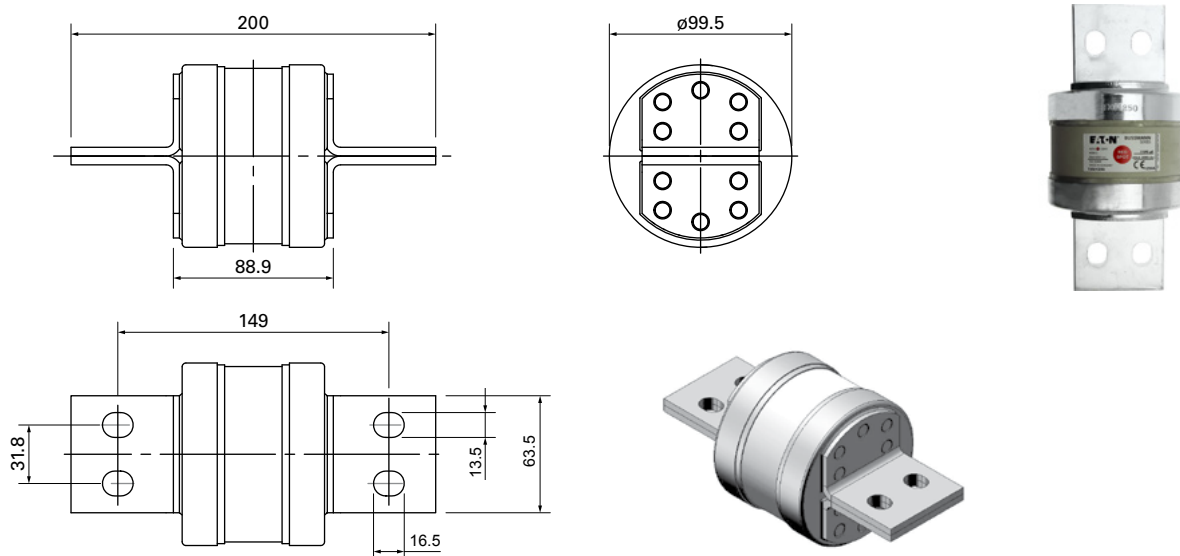
Centre bolted tags fuse links

## Centre bolted tags fuse links

TXU, class gG, 660-690 V a.c. and 300 V d.c., 1000 and 1250 A

| Catalog numbers | Rated voltage               | Rated current (Amps) | Breaking capacity   | Operating class | BS reference | Fixing centre (mm) | Pack quantity |
|-----------------|-----------------------------|----------------------|---------------------|-----------------|--------------|--------------------|---------------|
| TXU1000         | 660-690 V a.c. / 300 V d.c. | 1000                 | 80 kA at 690 V a.c. | gG              | D1           | 149                | 1             |
| TXU1250         | 660-690 V a.c. / 300 V d.c. | 1250                 | 80 kA at 690 V a.c. | gG              | D1           | 149                | 1             |

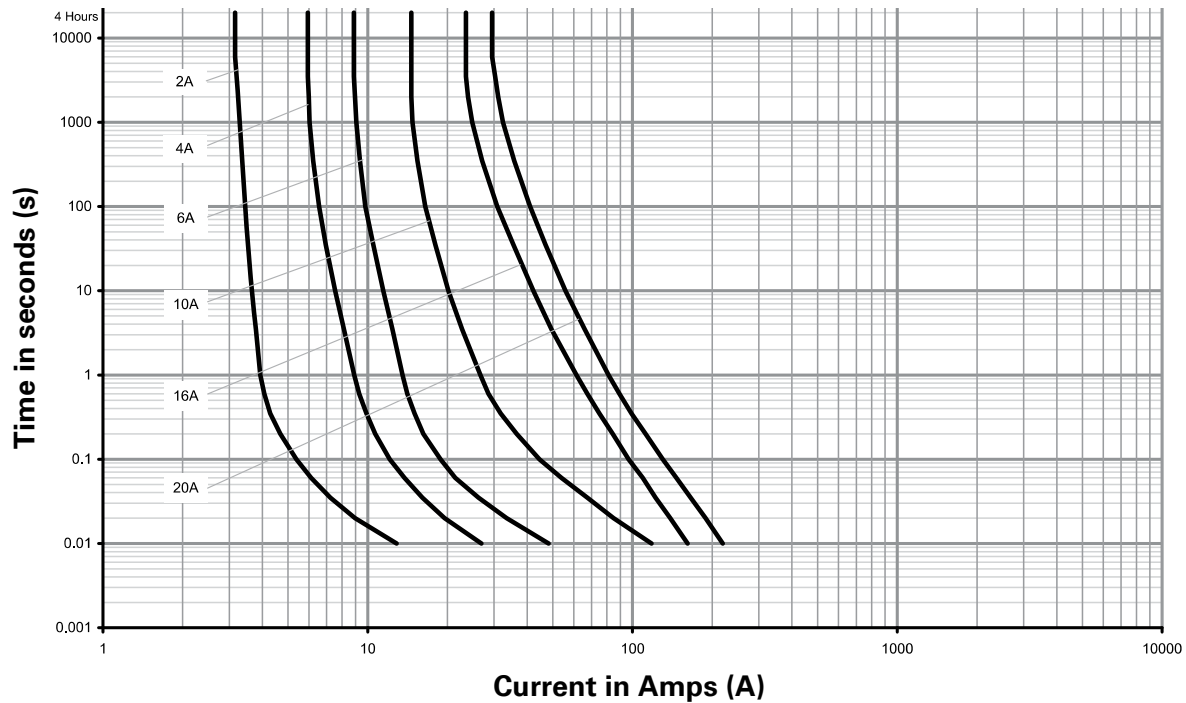
### Dimensions - mm



[Data sheet: 10078](#)

### Time-current curves - General application fuse links

#### NIT -gG fuse links



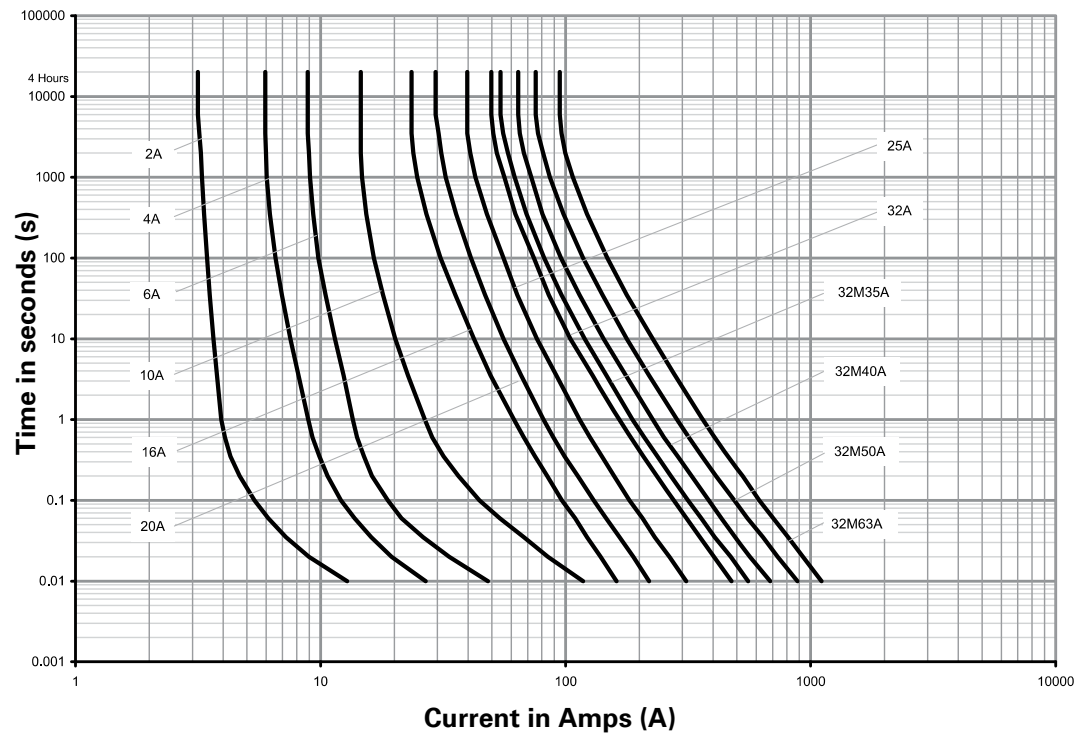
| Catalog numbers | I²t (Amps² Seconds) |                |
|-----------------|---------------------|----------------|
|                 | Pre-arcing          | Total at 550 V |
| NIT2            | 2.2                 | 15             |
| NIT4            | 7.2                 | 50             |
| NIT6            | 22                  | 150            |
| NIT10           | 170                 | 1000           |
| NIT16           | 200                 | 1350           |
| NIT20           | 360                 | 2200           |

# Industrial and motor applications to BS88 - Red spot

Time-current curves - General and Motor application fuse links

## Time-current curves - General and Motor application fuse links

TIA - gG and aM fuse links

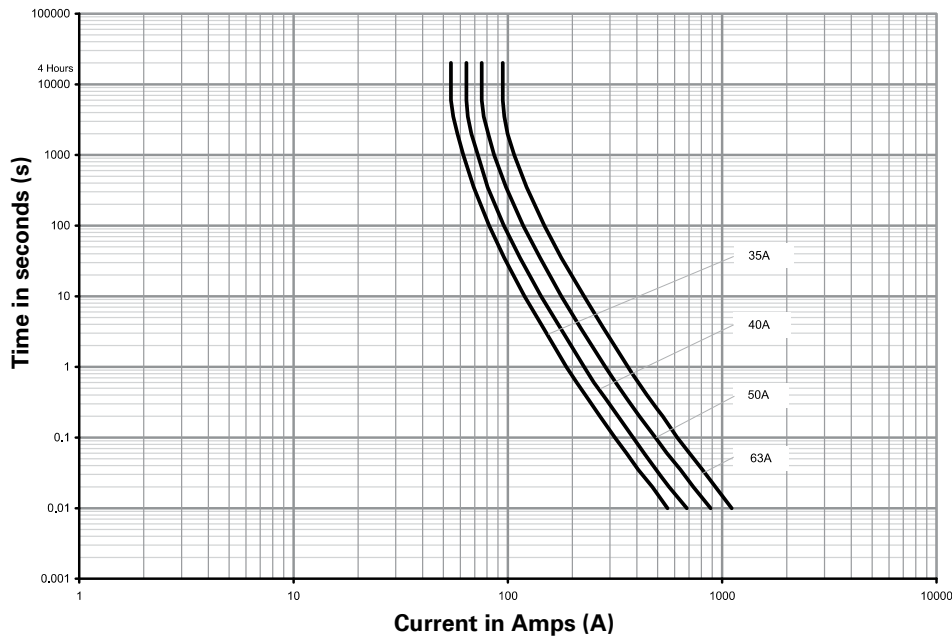


| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TIA2            | 2                   | 15                      |
| TIA4            | 7                   | 50                      |
| TIA6            | 22                  | 150                     |
| TIA10           | 170                 | 1000                    |
| TIA16           | 150                 | 1100                    |
| TIA20           | 300                 | 1670                    |
| TIA25           | 500                 | 3400                    |
| TIA32           | 1080                | 5900                    |
| TIA32M35        | 1380                | 6500                    |
| TIA32M40        | 1920                | 8380                    |
| TIA32M50        | 3410                | 13260                   |
| TIA32M63        | 6500                | 25000                   |

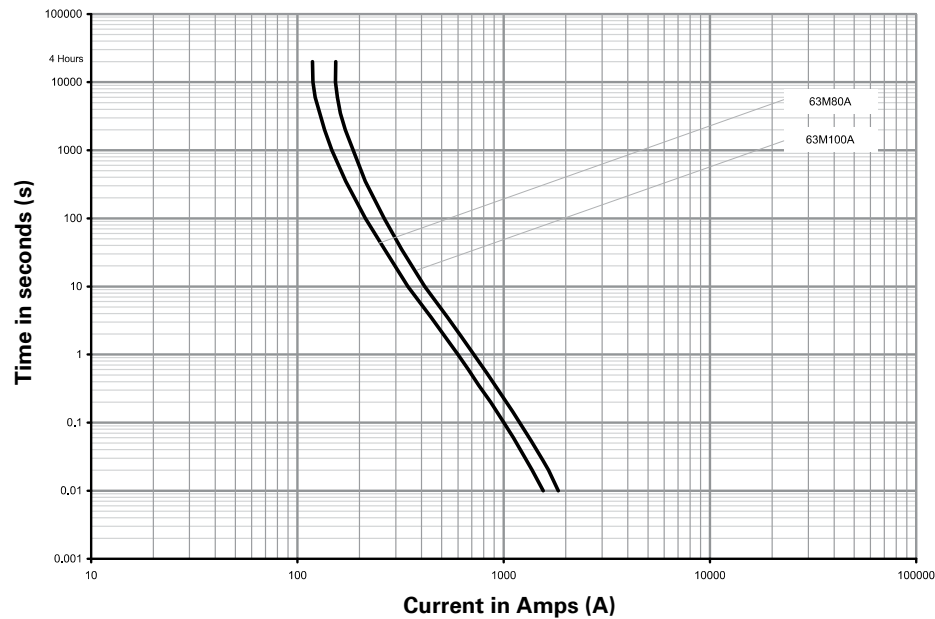
Data sheet: [10020](#)

### Time-current curves - General and Motor application fuse links

#### TIS - gG fuse links



#### TIS - aM fuse links

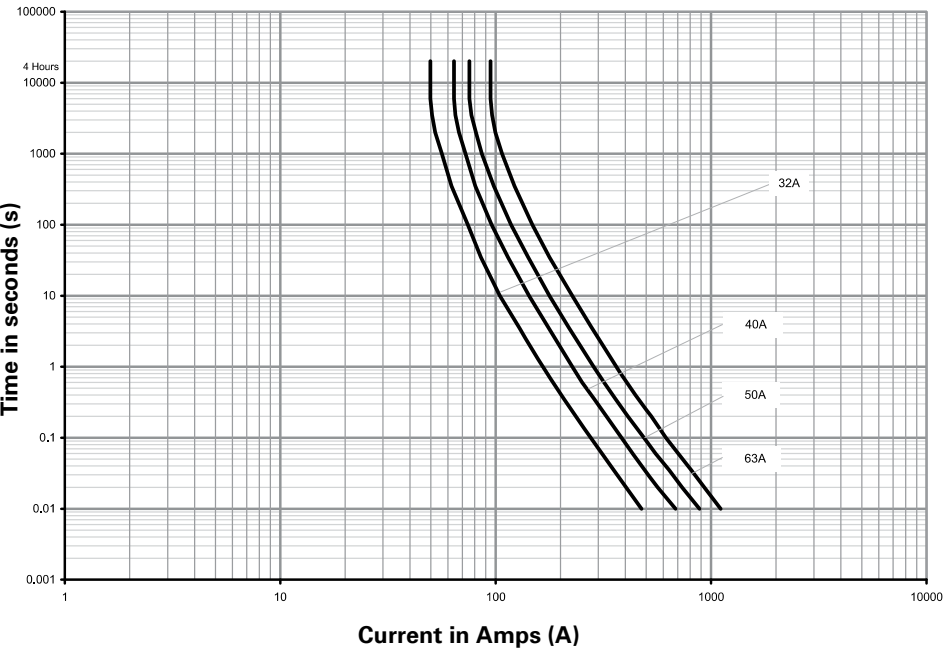


| Catalog numbers | I <sup>2</sup> t (Amps <sup>2</sup> Seconds) |                         |
|-----------------|----------------------------------------------|-------------------------|
|                 | Pre-arcing                                   | Total at 660-690 V a.c. |
| TIS35           | 1380                                         | 6500                    |
| TIS40           | 1920                                         | 8380                    |
| TIS50           | 3410                                         | 13,260                  |
| TIS63           | 6500                                         | 25,000                  |
| TIS63M80        | 14,000                                       | 66,000                  |
| TIS63M100       | 17,000                                       | 100,000                 |

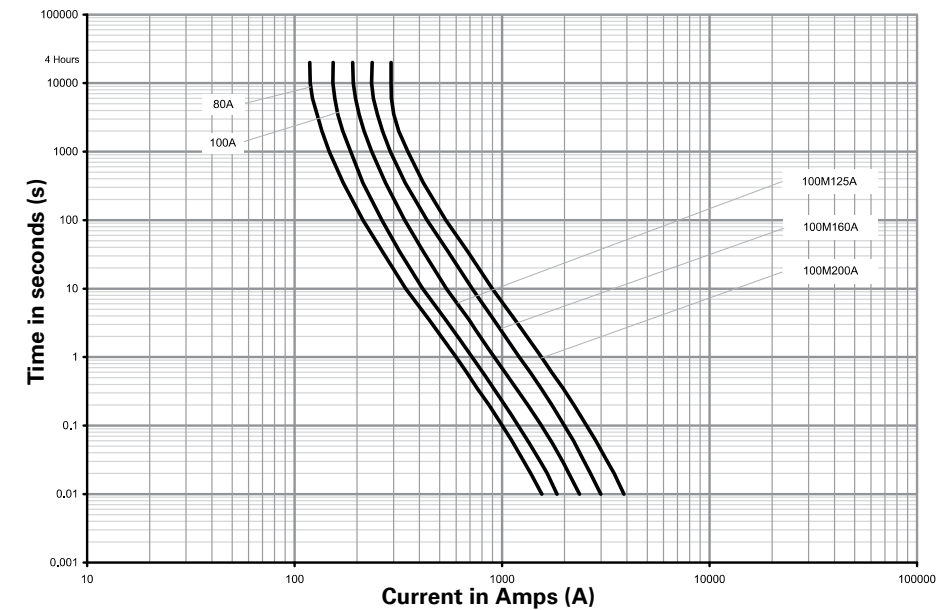
Data sheet: [10020](#)

Time-current curves - General and Motor application fuse links

TCP - gG fuse links



TCP - aM fuse links



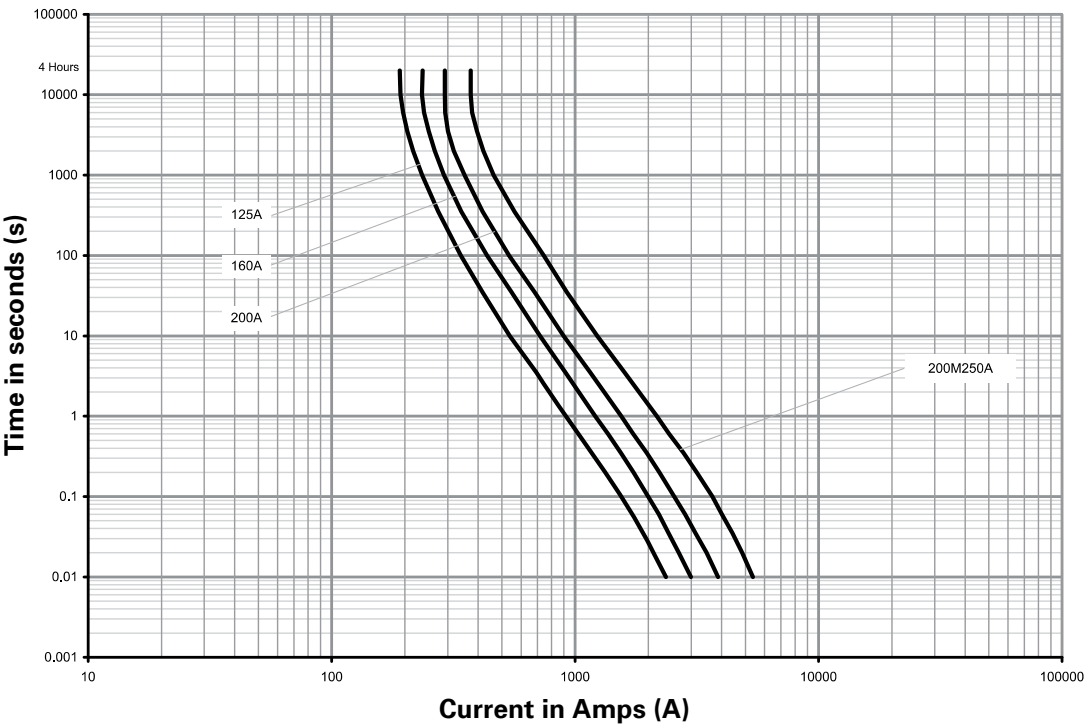
| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TCP32           | 1080                | 5900                    |
| TCP40           | 1920                | 8380                    |
| TCP50           | 3410                | 13,260                  |
| TCP63           | 6500                | 25,000                  |
| TCP80           | 14,000              | 66,000                  |
| TCP100          | 17,000              | 100,000                 |

| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TCP100M125      | 25,000              | 140,000                 |
| TCP100M160      | 62,000              | 270,000                 |
| TCP100M200      | 105,000             | 430,000                 |

Data sheet: [10020](#)

Time-current curves - General and Motor application fuse links

TFP - gG and gM fuse links



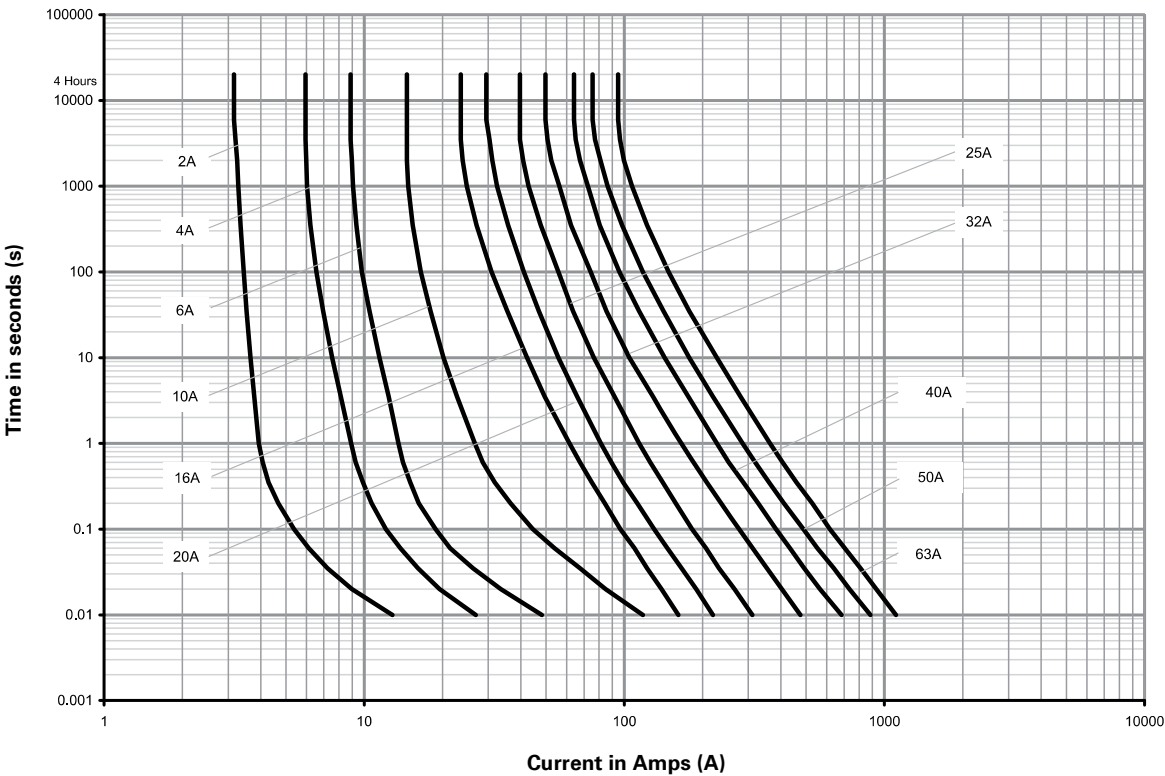
| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TFP125          | 25,000              | 140,000                 |
| TFP160          | 62,000              | 270,000                 |
| TFP200          | 105,000             | 430,000                 |
| TFP200M250      | 200,000             | 870,000                 |

# Industrial and motor applications to BS88 - Red spot

Time-current curves - General application fuse links

## Time-current curves - General application fuse links

TB, TBC- gG fuse links

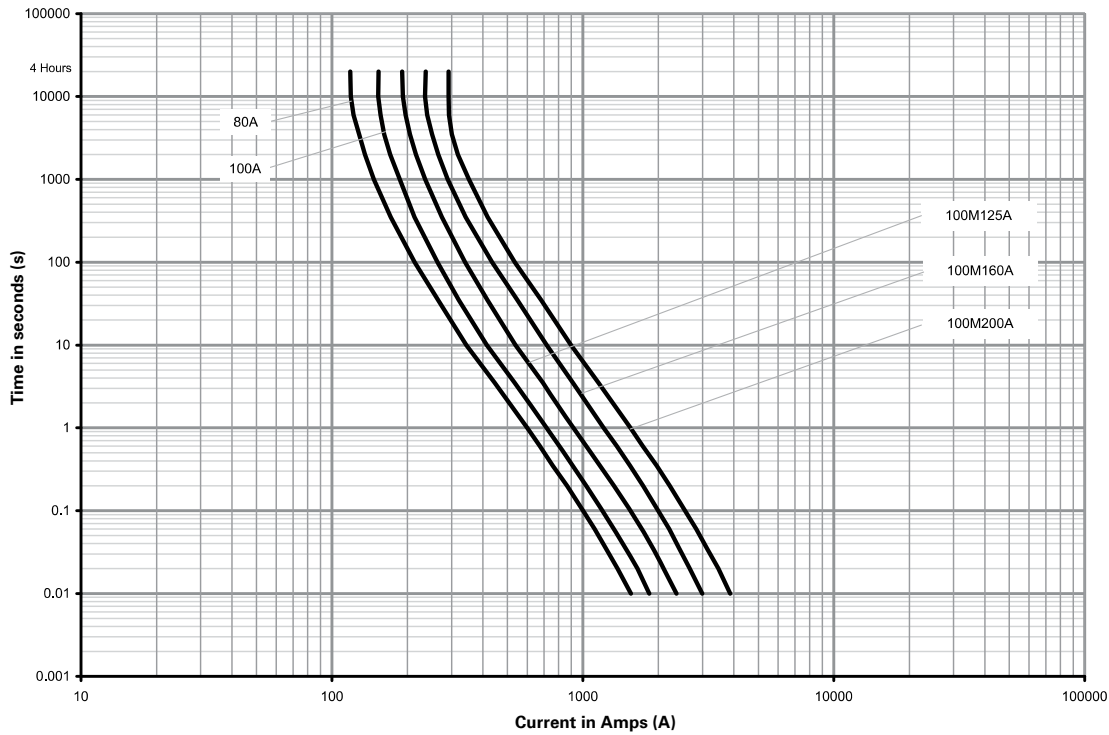


|                 |       | I²t (Amps² Seconds) |                     |
|-----------------|-------|---------------------|---------------------|
| Catalog numbers |       | Pre-arcing          | Total at 660 V a.c. |
|                 | TBC2  | 2                   | 15                  |
| TB4             | TBC4  | 7                   | 50                  |
| TB6             | TBC6  | 22                  | 150                 |
| TB10            | TBC10 | 170                 | 1000                |
| TB16            | TBC16 | 150                 | 1100                |
| TB20            | TBC20 | 300                 | 1670                |
| TB25            | TBC25 | 500                 | 3400                |
| TB32            | TBC32 | 1080                | 5900                |
| TB40            | TBC40 | 1920                | 8380                |
| TB50            | TBC50 | 3410                | 13,260              |
| TB63            | TBC63 | 6500                | 25,000              |

Data sheet: [10078](#)

### Time-current curves - General and Motor application fuse links

#### TC - gG and gM fuse links



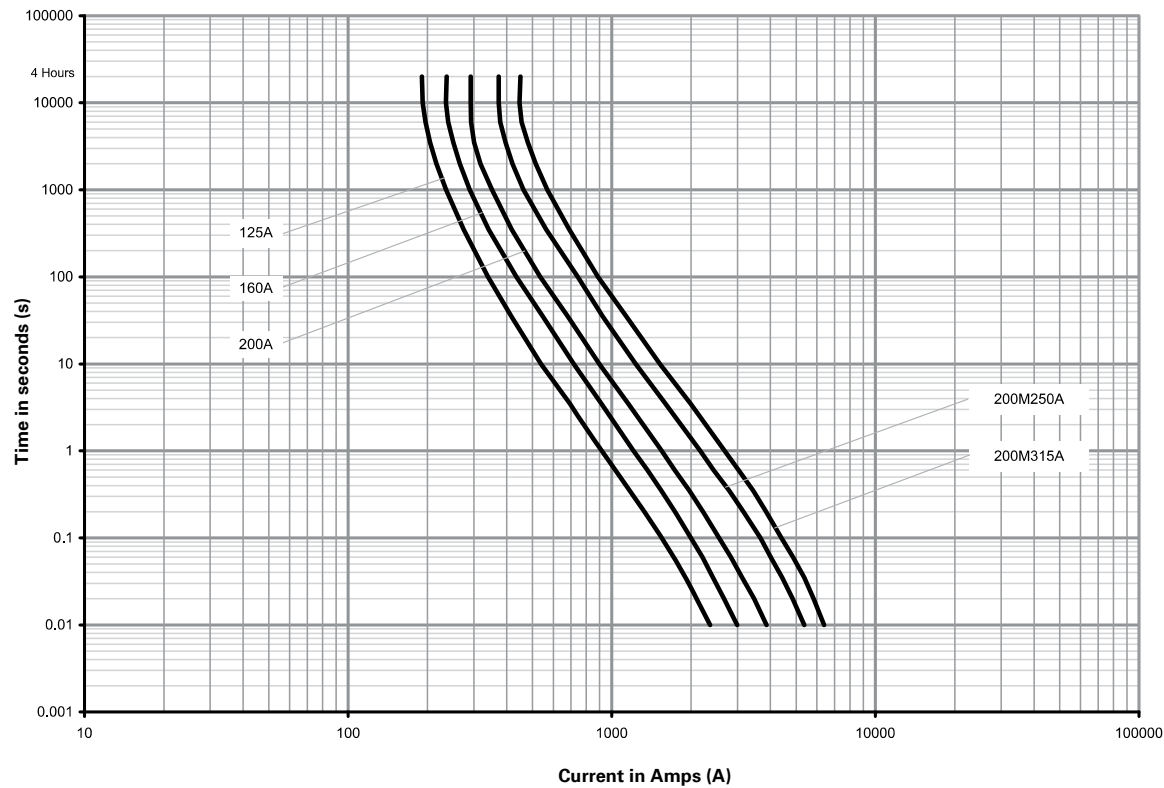
| Catalog numbers | $I^2t$ (Amps <sup>2</sup> Seconds) |                         |
|-----------------|------------------------------------|-------------------------|
|                 | Pre-arcing                         | Total at 660-690 V a.c. |
| TC80            | 14                                 | 66                      |
| TC100           | 17                                 | 100                     |
| TC100M125       | 25                                 | 140                     |
| TC100M160       | 62                                 | 270                     |
| TC100M200       | 105                                | 430                     |

# Industrial and motor applications to BS88 - Red spot

Time-current curves - General and Motor application fuse links

## Time-current curves - General and Motor application fuse links

TF - gG and gM fuse links

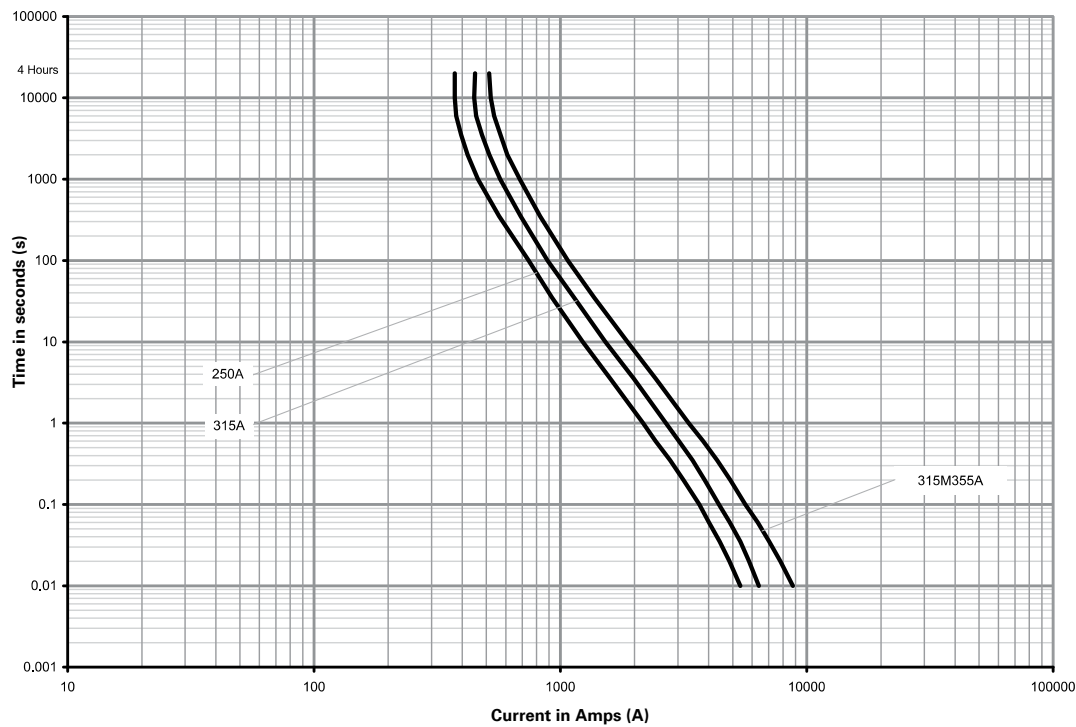


| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TF125           | 25                  | 140                     |
| TF160           | 62                  | 270                     |
| TF200           | 105                 | 430                     |
| TF200M250       | 200                 | 870                     |
| TF200M315       | 300                 | 1050                    |

[Data sheet: 10078](#)

### Time-current curves - General and Motor application fuse links

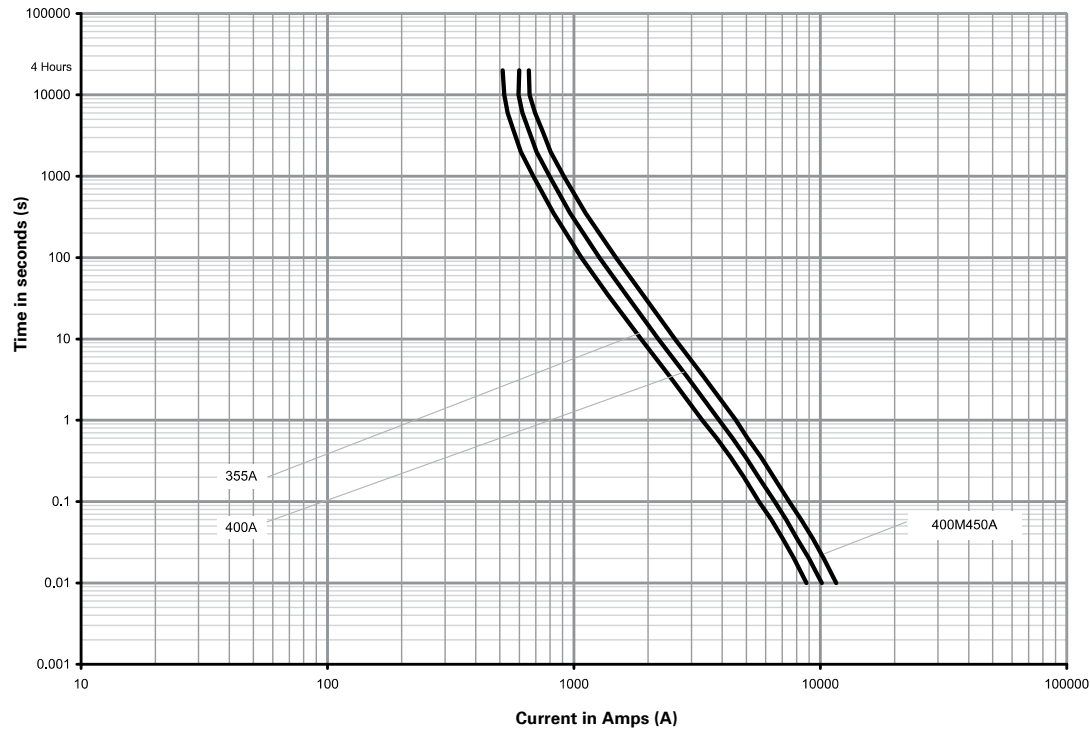
TKF, TKM - gG and gM fuse links



| Catalog numbers |            | I <sup>2</sup> t (Amps <sup>2</sup> Seconds) |                         |
|-----------------|------------|----------------------------------------------|-------------------------|
|                 |            | Pre-arcing                                   | Total at 660-690 V a.c. |
| TKF250          | TKM250     | 200                                          | 870                     |
| TKF315          | TKM315     | 300                                          | 1350                    |
| TKF315M355      | TKM315M355 | 500                                          | 2250                    |

Time-current curves - General and Motor application fuse links

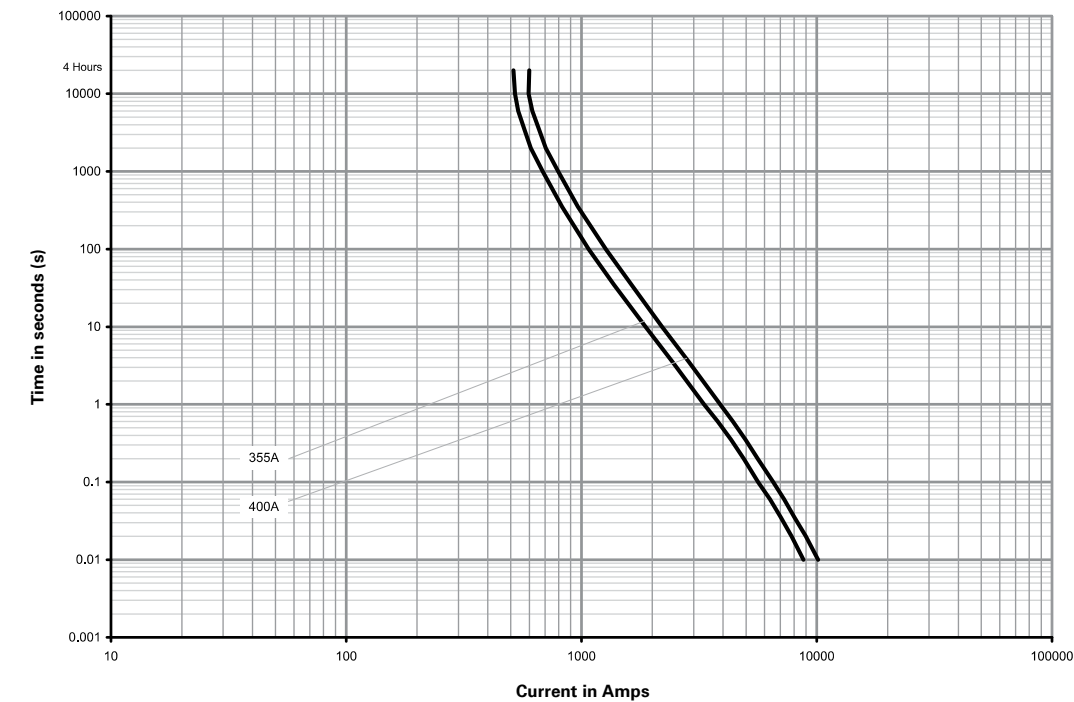
TM, TMF - gG and gM fuse links



| Catalog numbers |            | I²t (Amps² Seconds) |                         |
|-----------------|------------|---------------------|-------------------------|
|                 |            | Pre-arcing          | Total at 660-690 V a.c. |
| TM355           | TMF355     | 500                 | 2250                    |
| TM400           | TMF400     | 640                 | 3000                    |
| TM400M450       | TMF400M450 | 800                 | 3800                    |

Time-current curves - General application fuse links

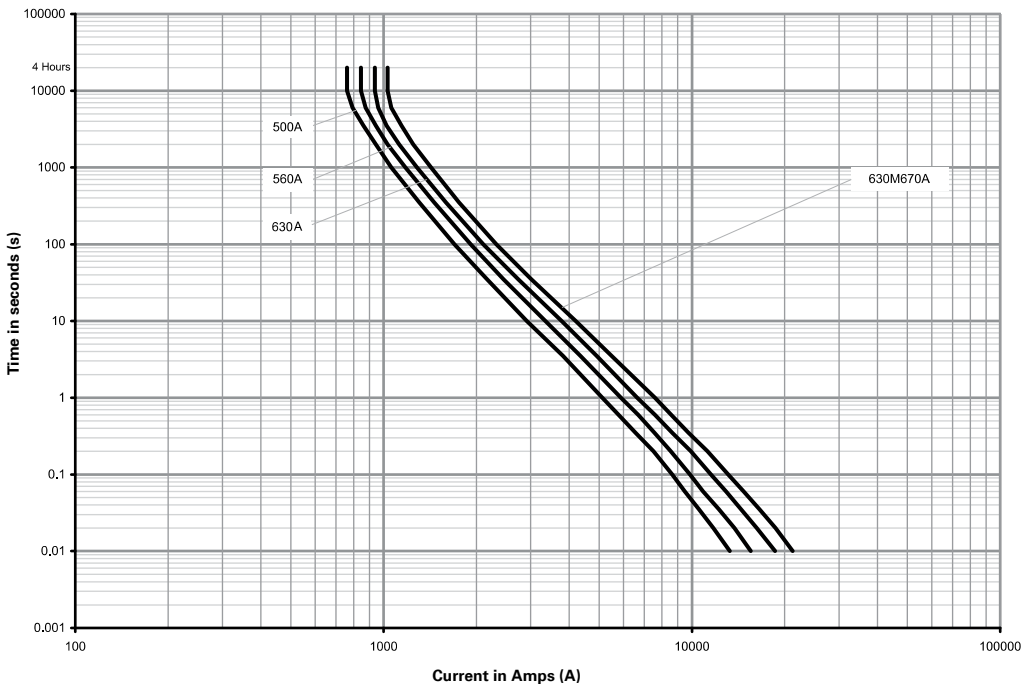
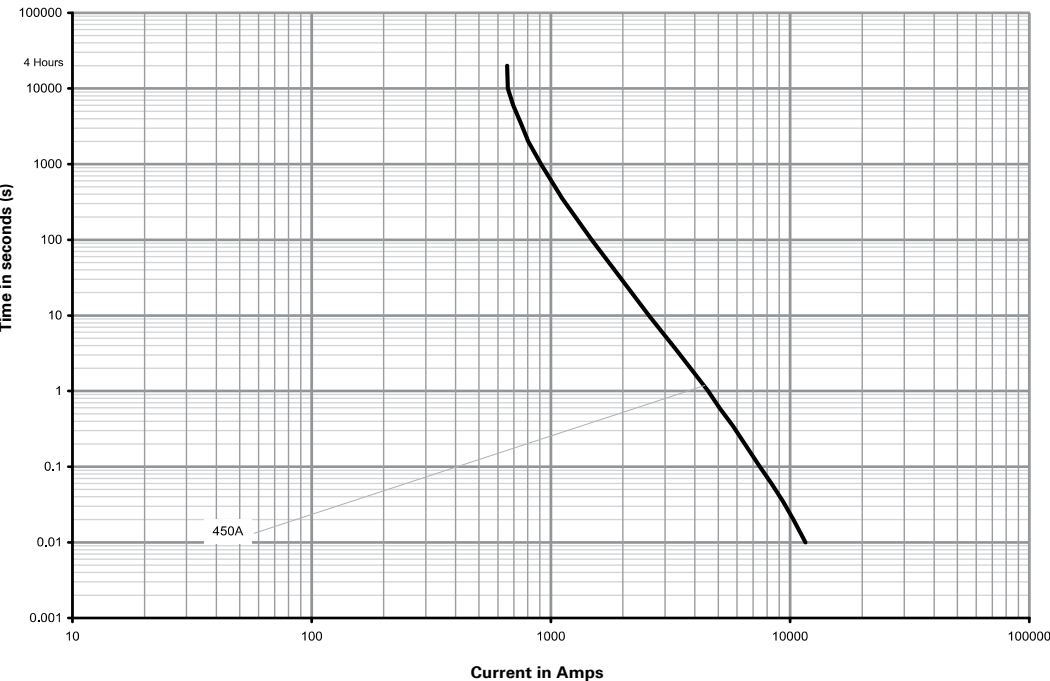
TMT - gG fuse links



| Catalog numbers | I²t (Amps² Seconds) |                     |
|-----------------|---------------------|---------------------|
|                 | Pre-arcing          | Total at 660 V a.c. |
| TMT355          | 500                 | 2250                |
| TMT400          | 640                 | 3000                |

Time-current curves - General and Motor application fuse links

TTM - gG and gM fuse links

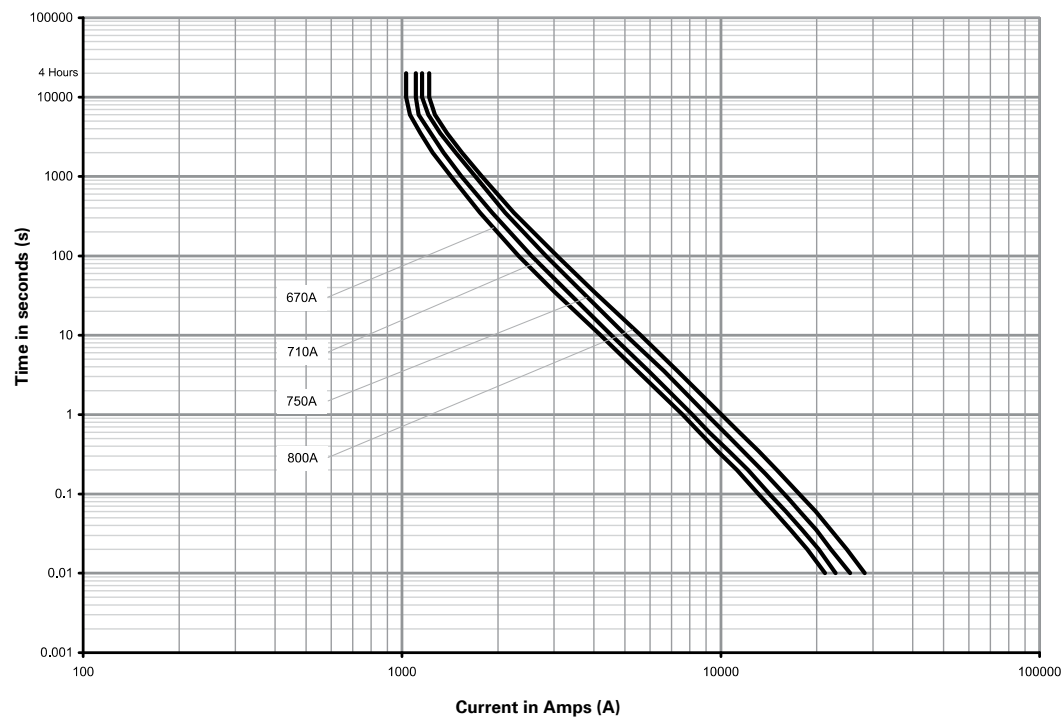


| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TTM450          | 800                 | 3800                    |
| TTM500          | 1050                | 4500                    |
| TTM560          | 1400                | 5400                    |
| TTM630          | 2000                | 7500                    |
| TTM630M670      | 2400                | 9000                    |

Data sheet: [10078](#)

Time-current curves - General application fuse links

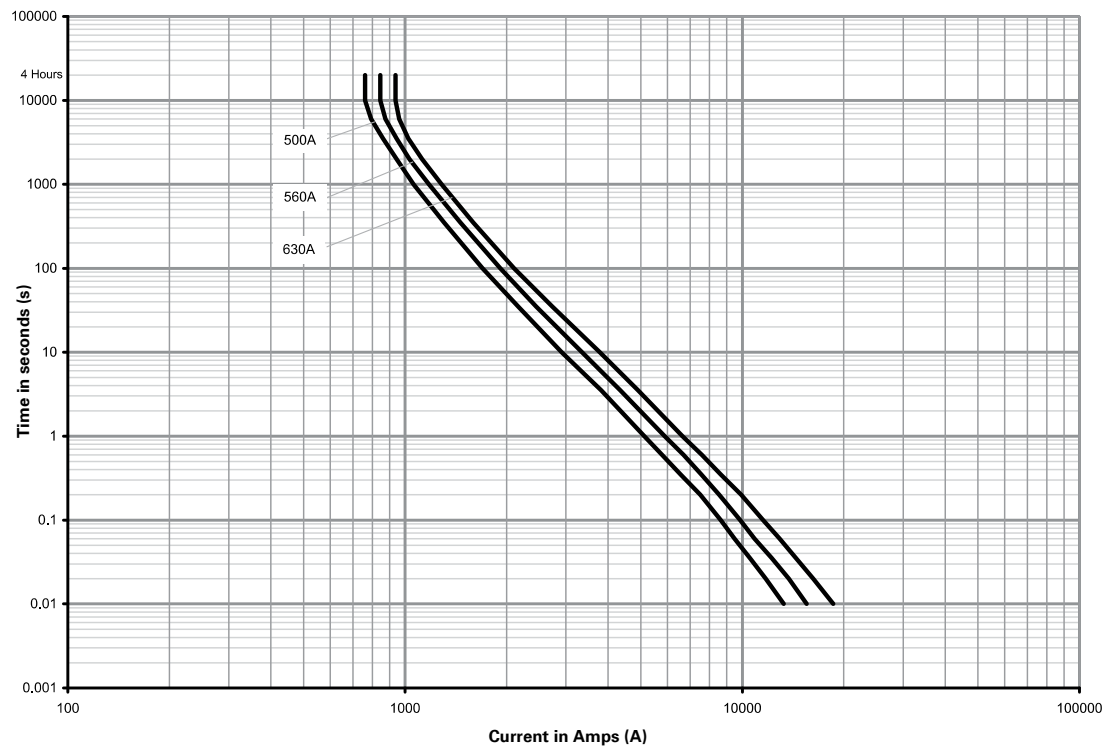
TLM - gG fuse links



| Catalog numbers | I²t (Amps² Seconds) |                         |
|-----------------|---------------------|-------------------------|
|                 | Pre-arcing          | Total at 660-690 V a.c. |
| TLM670          | 2400                | 9000                    |
| TLM710          | 2800                | 9700                    |
| TLM750          | 3700                | 12,000                  |
| TLM800          | 4400                | 15,000                  |

Time-current curves - General application fuse links

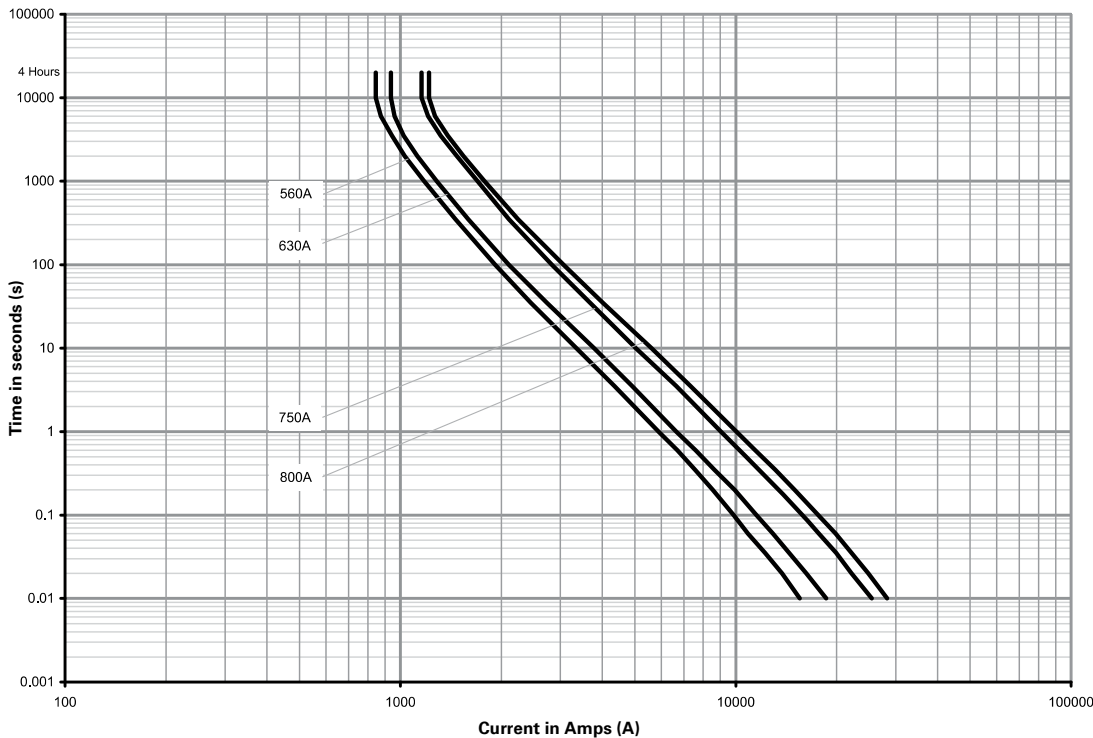
TT - gG fuse links



| Catalog numbers | I²t (Amps² Seconds) |                      |
|-----------------|---------------------|----------------------|
|                 | Pre-arcing          | Total at 660- V a.c. |
| TT500           | 1050                | 4500                 |
| TT560           | 1400                | 5400                 |
| TT630           | 2000                | 7500                 |

Time-current curves - General application fuse links

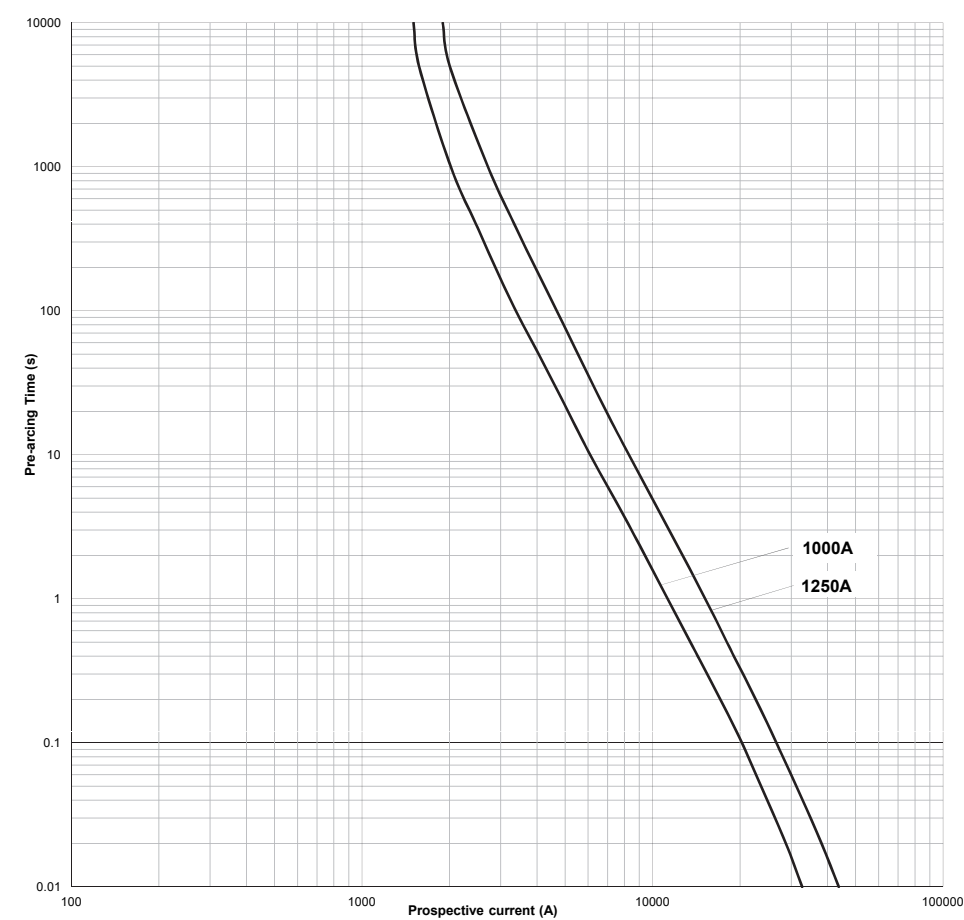
TLU - gG fuse links



| Catalog numbers | I²t (Amps² Seconds) |                      |
|-----------------|---------------------|----------------------|
|                 | Pre-arcing          | Total at 660- V a.c. |
| TLU560          | 1400                | 5400                 |
| TLU630          | 2000                | 7500                 |
| TLU750          | 3700                | 12,000               |
| TLU800          | 4400                | 15,000               |

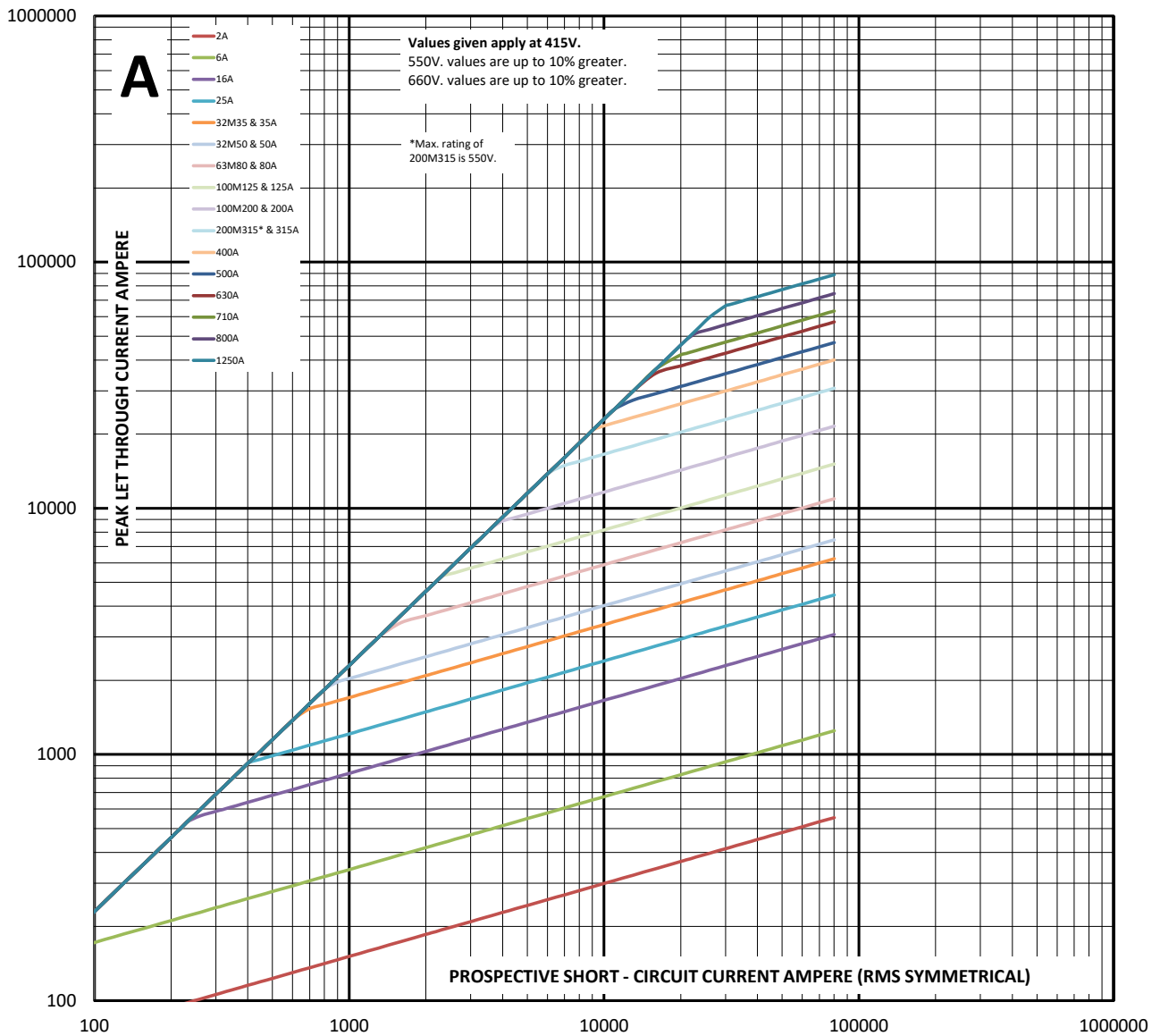
Time-current curves - General application fuse links

TXU - gG fuse links



| Catalog numbers | I²t (Amps² Seconds) |                      |
|-----------------|---------------------|----------------------|
|                 | Pre-arcing          | Total at 660- V a.c. |
| TXU1000         | 5300                | 17500                |
| TXU1250         | 10000               | 29000                |

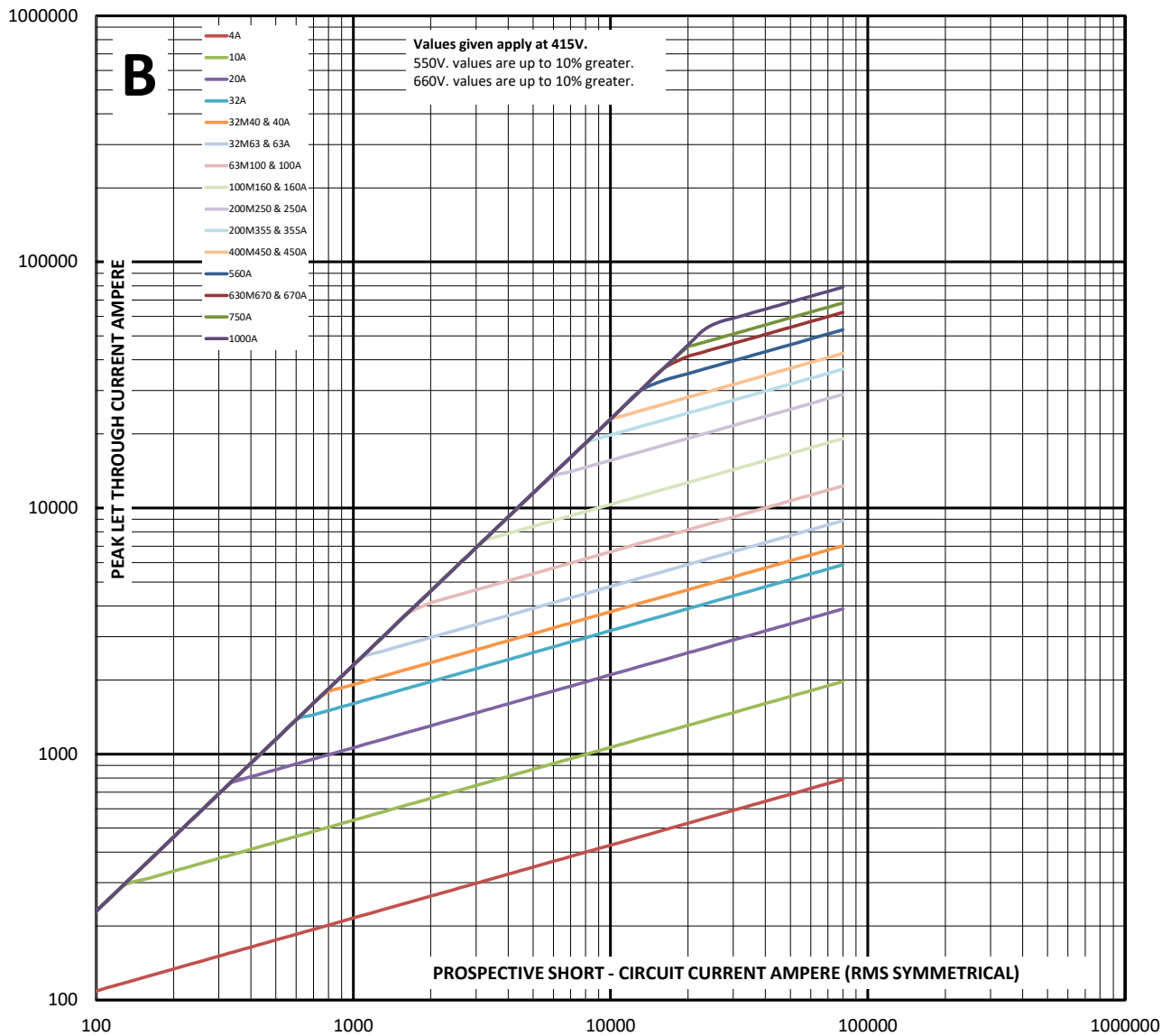
## Cut-off curve - General application fuse links



# Industrial and motor applications to BS88 - Red spot

Cut-off curve - Motor application fuse links

## Cut-off curve - Motor application fuse links



Data sheet: [10078](#)

## Camaster fuse holders

### Specifications

#### Description

BS Fuse holders specifically designed to fit BS fuse links.

#### Technical data

Rated voltage: 690 V a.c.

Rated current: 20 to 100 A

#### Standard/agency information

ASTA certified to IEC 60269.

#### Product selection

| Catalog numbers | Description              | Colour | Rated current (Amps) | Rated voltage | Minimum conductor size (mm <sup>2</sup> ) | Maximum conductor size (mm <sup>2</sup> ) | Pack quantity | Compatible fuse links |
|-----------------|--------------------------|--------|----------------------|---------------|-------------------------------------------|-------------------------------------------|---------------|-----------------------|
| CM20F           | Front connected*         | Black  | 20                   | 690 V a.c.    | 0.5                                       | 16                                        | 10            | NITD, NIT,            |
| CM32FC          | Front connected compact* | Black  | 32                   | 690 V a.c.    | 0.5                                       | 16                                        | 10            | NITD, NIT             |
| CM32FCG         | Front connected compact* | Green  | 32                   | 690 V a.c.    | 0.5                                       | 16                                        | 10            | NITD, NIT             |
| CM32FCW         | Front connected compact* | White  | 32                   | 690 V a.c.    | 0.5                                       | 16                                        | 10            | NITD, NIT,            |
| CM32F           | Front connected*         | Black  | 32                   | 690 V a.c.    | 1.5                                       | 16                                        | 10            | AAO, TIA              |
| CM32FG          | Front connected*         | Green  | 32                   | 690 V a.c.    | 1.5                                       | 16                                        | 10            | AAO, TIA              |
| CM32FW          | Front connected*         | White  | 32                   | 690 V a.c.    | 1.5                                       | 16                                        | 10            | AAO, TIA              |
| CM63F           | Front connected*         | Black  | 63                   | 690 V a.c.    | 1.5                                       | 70                                        | 10            | BAO, TIS              |
| CM63FW          | Front connected*         | White  | 63                   | 690 V a.c.    | 1.5                                       | 70                                        | 10            | BAO, TIS              |
| CM100F          | Front connected*         | Black  | 100                  | 690 V a.c.    | 1.5                                       | 70                                        | 5             | OSD                   |
| CM100FW         | Front connected*         | White  | 100                  | 690 V a.c.    | 1.5                                       | 70                                        | 5             | OSD                   |

\* Back studs can be retrofitted as standard



### Accessories

| Catalog numbers | Description                                | Pack quantity |
|-----------------|--------------------------------------------|---------------|
| 32BSC           | Back stud for 20-32 A compact Camaster     | 10            |
| 32BS            | Back stud conversion kit for 32 A Camaster | 10            |
| 63-100BS        | Back stud for 63-100 A Camaster            | 5             |
| 32CMLC          | Neutral link for 32 A compact Camaster     | 10            |
| 32CML           | Neutral link for 32 A Camaster             | 1             |
| 63-100CML       | Neutral link for 63-100 A Camaster         | 1             |
| 32LSCC          | Lockable safety carrier 20-32 A compact    | 3             |
| 32LSC           | Lockable safety carrier 32 A               | 3             |
| 63-100LSC       | Lockable safety carrier 63 - 100 A         | 3             |



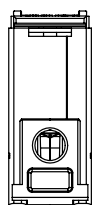
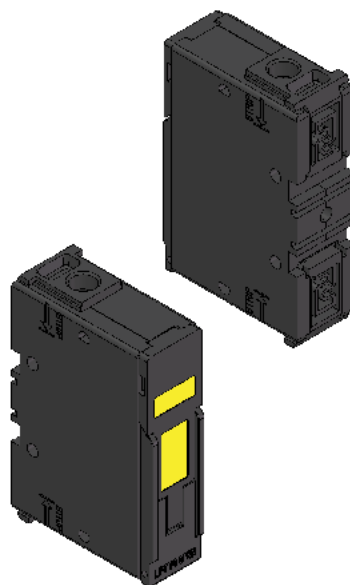
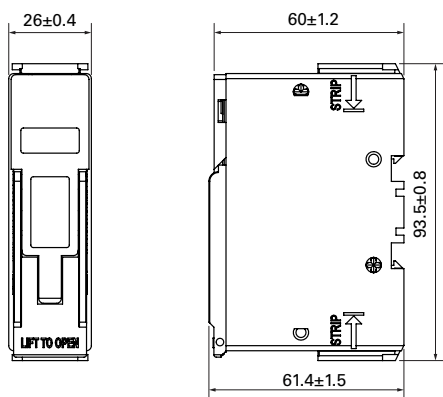
## BS88 Fuse holders

Camaster fuse holders

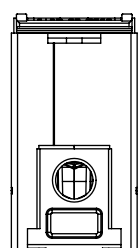
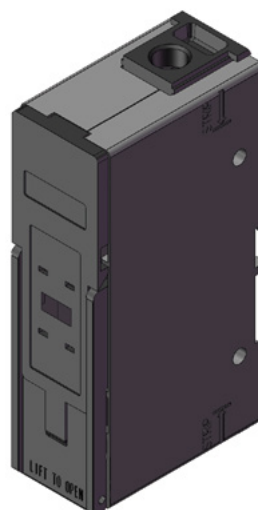
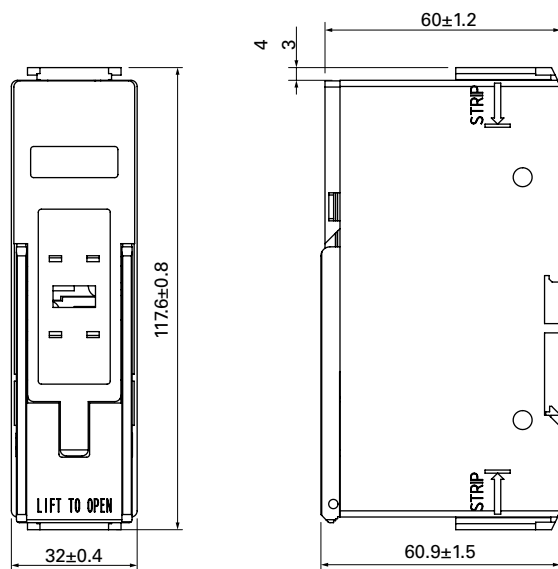
### Camaster fuse holders

Dimensions - mm

CM20F and CM32FC



CM32F

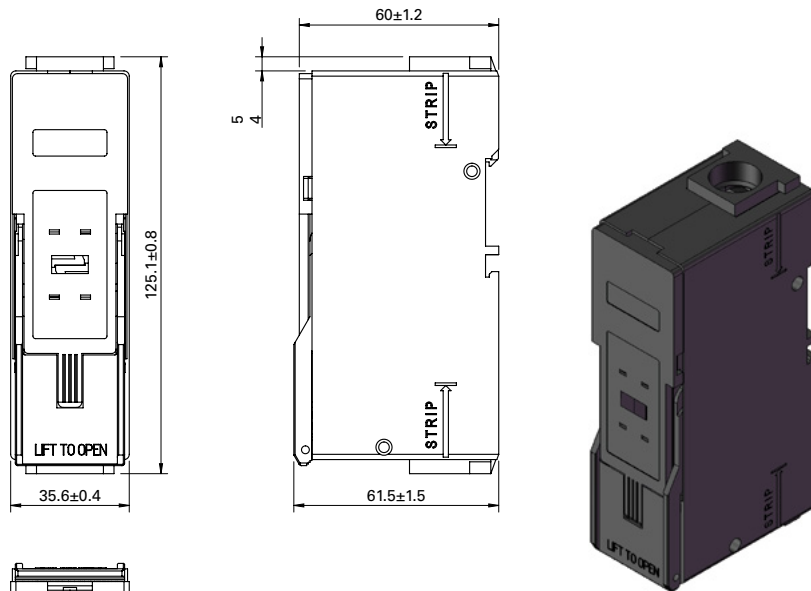


[Data sheet: 10415](#)

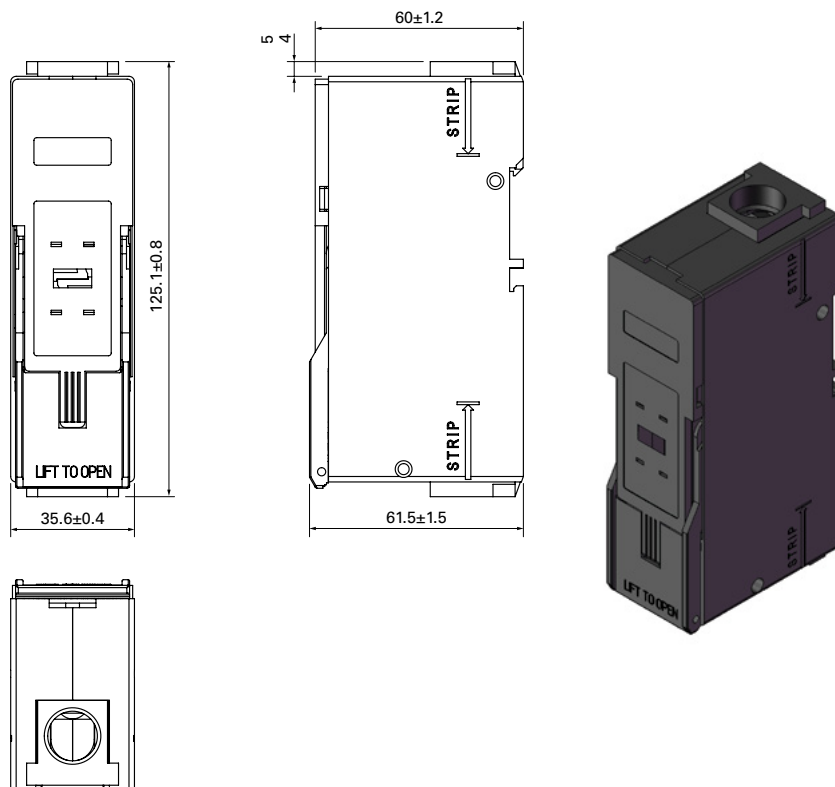
## Camaster fuse holders

## Dimensions - mm

## CM63F



## CM100F

[Data sheet: 10415](#)

# BS Fuse holders

Safeloc fuse holders

## Safeloc fuse holders

### Specifications

#### Description

BS Fuse holders specifically designed to fit BS fuse links.

#### Technical data

Rated voltage: 550 V a.c.  
Rated current: 32 to 63 A

#### Standard/agency information

ASTA certified to IEC 60269.



### Product selection

| Catalog numbers | Description                     | Colour | Rated current (Amps) | Rated voltage | Minimum conductor size (mm <sup>2</sup> ) | Maximum conductor size (mm <sup>2</sup> ) | Pack quantity | Compatible fuse links |
|-----------------|---------------------------------|--------|----------------------|---------------|-------------------------------------------|-------------------------------------------|---------------|-----------------------|
| 32NNSBS         | Back stud/back stud             | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSBSGREEN    | Back stud/back stud             | Green  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSBSWHITE    | Back stud/back stud             | White  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSF          | Front connected/front connected | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSFGREEN     | Front connected/front connected | Green  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSFWHITE     | Front connected/front connected | White  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSFBS        | Front connected/back stud       | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 32NNSFBSWHITE   | Front connected/back stud       | White  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| 63ENSBS         | Back stud/back stud             | Black  | 63                   | 550 V a.c.    | 1.5                                       | 35                                        | 5             | ESD                   |
| 63ENSBSWHITE    | Back stud/back stud             | White  | 63                   | 550 V a.c.    | 1.5                                       | 35                                        | 5             | ESD                   |
| 63ENSF          | Front connected/front connected | Black  | 63                   | 550 V a.c.    | 1.5                                       | 35                                        | 5             | ESD                   |
| 63ENSFWHITE     | Front connected/front connected | White  | 63                   | 550 V a.c.    | 1.5                                       | 35                                        | 5             | ESD                   |
| 63ENSFBS        | Front connected/back stud       | Black  | 63                   | 550 V a.c.    | 1.5                                       | 35                                        | 5             | ESD                   |
| 63ENSFBSWHITE   | Front connected/back stud       | White  | 63                   | 550 V a.c.    | 1.5                                       | 35                                        | 5             | ESD                   |



Front connected  
32NNSF



One back stud  
32NNSFBSWHITE

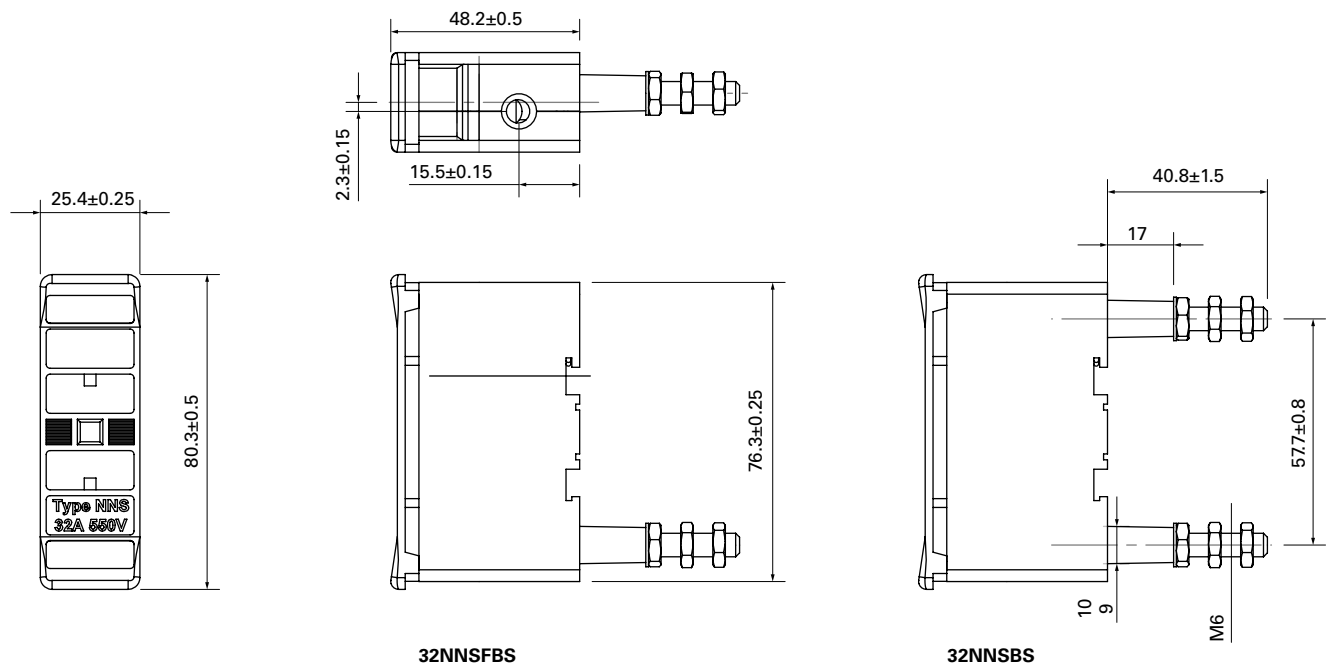


Two back studs  
32NNSBSWHITE

[Data sheet: 10415](#)

## Safeloc fuse holders

### Dimensions - mm



**32NNSFBSWHITE**  
Front connected/back stud



**32NNSBS**  
Back stud/back stud

## Safeloc fuse holders

### Dimensions - mm

Technical drawing of the NNS 32A 550V switchgear showing three views: front, side, and top.

**Front View:** The switchgear has a total height of  $80.3 \pm 0.5$  mm. The width is  $25.4 \pm 0.25$  mm. The front panel features a label that reads "Type NNS 32A 550V".

**Side View:** The side view shows a total height of  $76.3 \pm 0.25$  mm. The depth is  $48 \pm 0.8$  mm. The top edge has a height of  $5.3$  mm, and the bottom edge has a height of  $4.5$  mm.

**Top View:** The top view shows a total width of  $25.4 \pm 0.25$  mm. The depth is  $15.5 \pm 0.15$  mm. The front edge has a height of  $2.3 \pm 0.15$  mm.



**63ENSFWHITE**  
Front connected/front connected

## Safeclip fuse holders

### Specifications

#### Description

BS Fuse holders specifically designed to fit BS fuse links.

#### Technical data

Rated voltage: 550 V a.c.  
Rated current: 20 to 125 A

#### Standard/agency information

BS88 and IEC 60269-1

#### Product selection

| Catalog numbers | Description               | Colour | Rated current (Amps) | Rated voltage | Minimum conductor size (mm <sup>2</sup> ) | Maximum conductor size (mm <sup>2</sup> ) | Pack quantity | Compatible fuse links |
|-----------------|---------------------------|--------|----------------------|---------------|-------------------------------------------|-------------------------------------------|---------------|-----------------------|
| SC20H           | Front connected           | Black  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC20HWH         | Front connected           | White  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC20HGN         | Front connected           | Green  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC20P           | Back stud connected       | Black  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC20PWH         | Back stud connected       | White  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC20PGN         | Back stud connected       | Green  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC20BH          | Busbar/front connected    | Black  | 20                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | SSD                   |
| SC32H-D         | Front connected           | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32H-DWH       | Front connected           | White  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32H-DGN       | Front connected           | Green  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32P           | Back stud connected       | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32PWH         | Back stud connected       | White  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32PGN         | Back stud connected       | Green  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32BH          | Busbar/front connected    | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32PH-D        | Front/back stud connected | Black  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC32PH-DWH      | Front/back stud connected | White  | 32                   | 550 V a.c.    | 0.5                                       | 16                                        | 10            | NSD                   |
| SC63H-D         | Front connected           | Black  | 63                   | 550 V a.c.    | 2.5                                       | 25                                        | 10            | ESD                   |
| SC63H-DWH       | Front connected           | White  | 63                   | 550 V a.c.    | 2.5                                       | 25                                        | 10            | ESD                   |
| SC63P           | Back stud connected       | Black  | 63                   | 550 V a.c.    | 2.5                                       | 25                                        | 10            | ESD                   |
| SC63BH          | Busbar/front connected    | Black  | 63                   | 550 V a.c.    | 2.5                                       | 25                                        | 10            | ESD                   |
| SC100H          | Front connected           | Black  | 100                  | 550 V a.c.    | 2.5                                       | 50                                        | 5             | OSD                   |
| SC125H-D        | Front connected           | Black  | 125                  | 550 V a.c.    | 2.5                                       | 70                                        | 1             | XS                    |



**Front connected**  
SC20H



**Front/Back stud connected**  
SC32PH-D



**Back stud connected**  
SC20P



**Busbar/Front connected**  
SC32BH

[Data sheet: 10137](#)

# BS88 Fuse holders

## Safeclick fuse holders

## Safeclick fuse holders

### Accessories

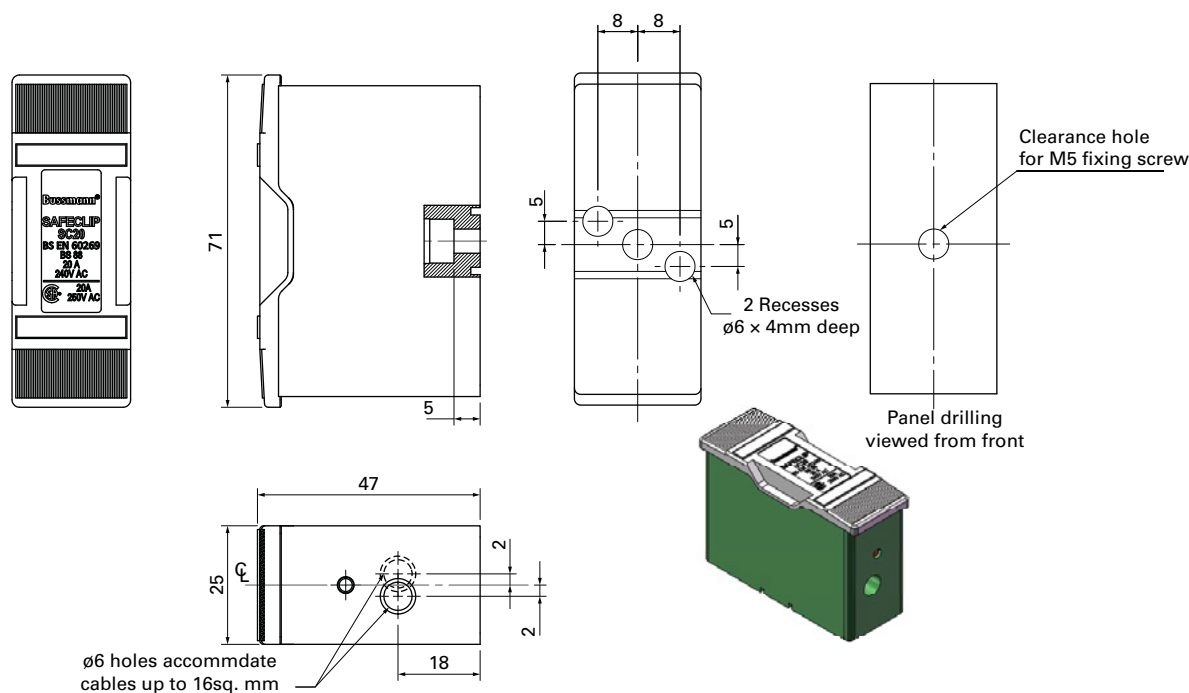
| Catalog numbers | Type                | To be used with fuse links | To be used with fuse holders | Pack quantity |
|-----------------|---------------------|----------------------------|------------------------------|---------------|
| SSC-LINK        | Copper links        | N/A                        | SC20                         | 10            |
| NSC-LINK        | Copper links        | N/A                        | SC32                         | 10            |
| ESC-LINK        | Copper links        | N/A                        | SC63                         | 10            |
| OSC-LINK        | Copper links        | N/A                        | SC100                        | 10            |
| XSC-LINK        | Copper links        | N/A                        | SC125                        | 10            |
| SC32LOCK        | Padlockable inserts | N/A                        | SC32                         | 10            |
| SC63LOCK        | Padlockable inserts | N/A                        | SC63                         | 10            |
| SCA63CAR        | Adaptor carrier     | NS                         | SC63                         | 10            |
| DIN-20-32       | DIN-Rail adaptor*   | N/A                        | SC20 and RS20                | 10            |

\* To fit NS fuses in SC63 holder



### Dimensions - mm

#### SC20H 20 A, Front connected

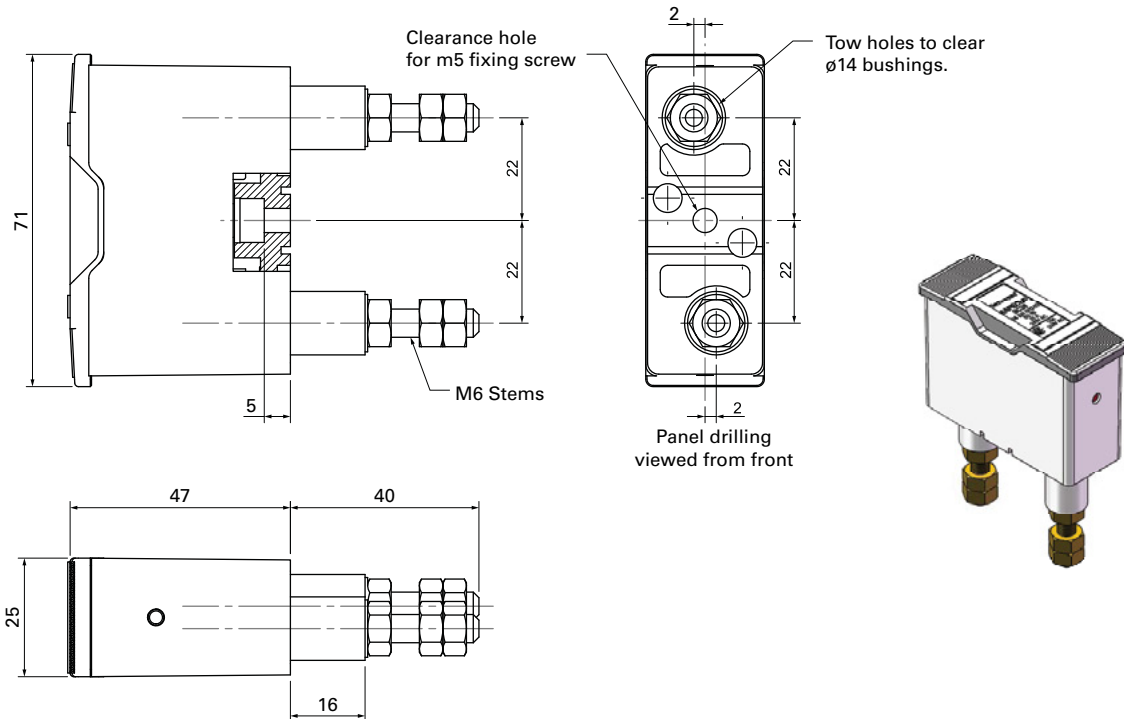


[Data sheet: 10137](#)

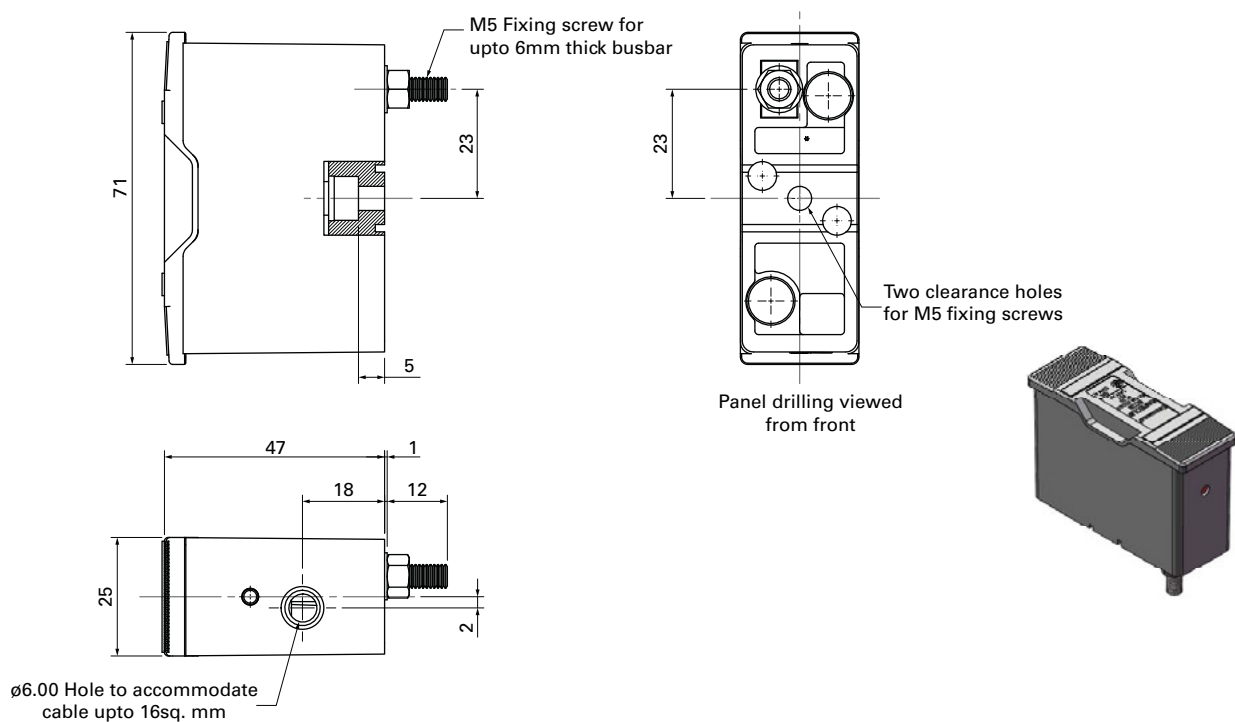
## Safeclip fuse holders

### Dimensions - mm

#### SC20P 20 A, Back stud connected



#### SC20BH 20 A, Busbar/front connected



[Data sheet: 10137](#)

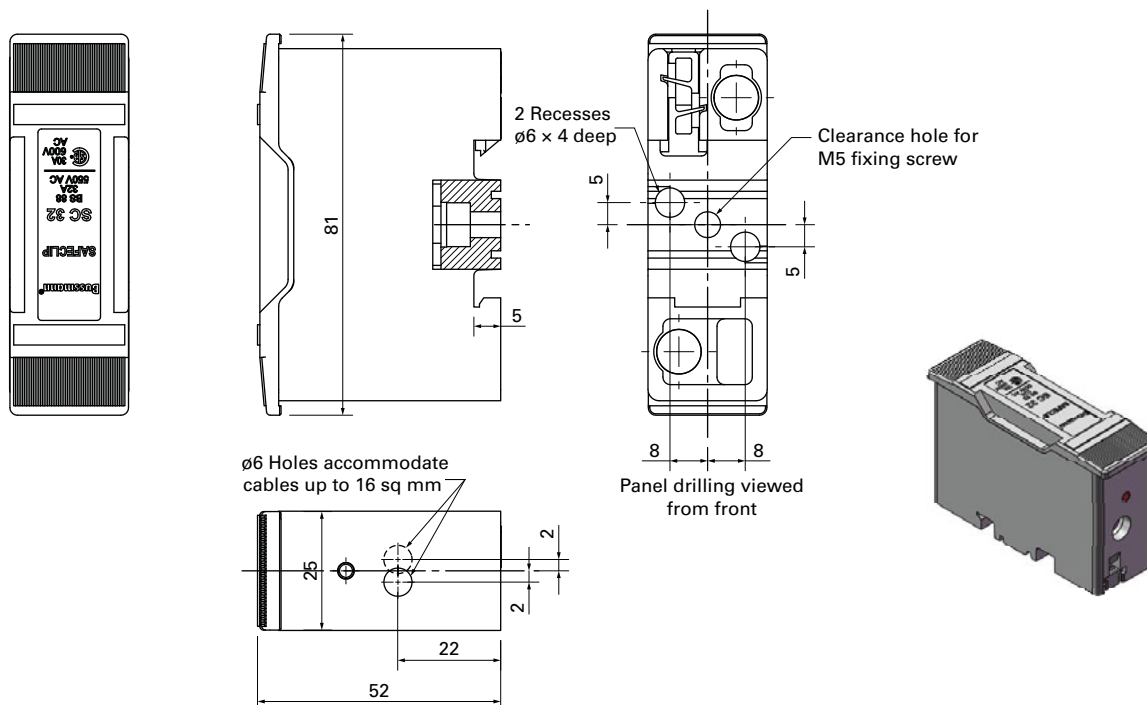
# BS88 Fuse holders

Safeclip fuse holders

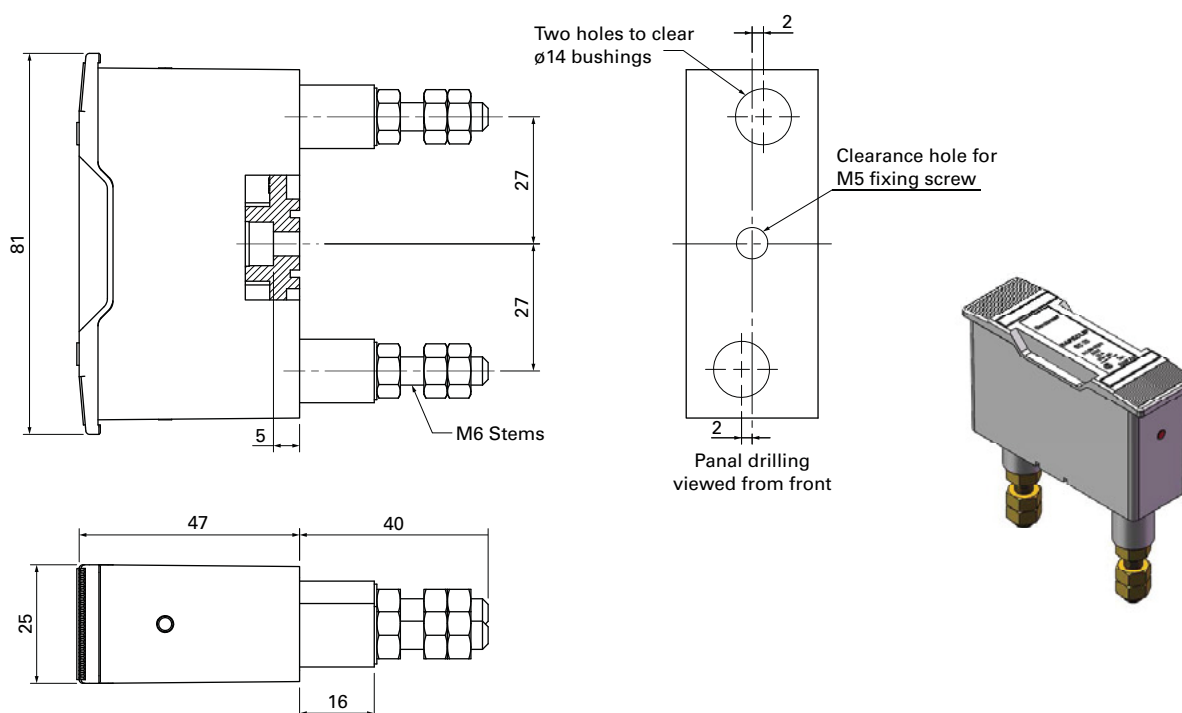
## Safeclip fuse holders

Dimensions - mm

SC32H-D 32 A, Front connected



SC32P 32 A, Back stud connected

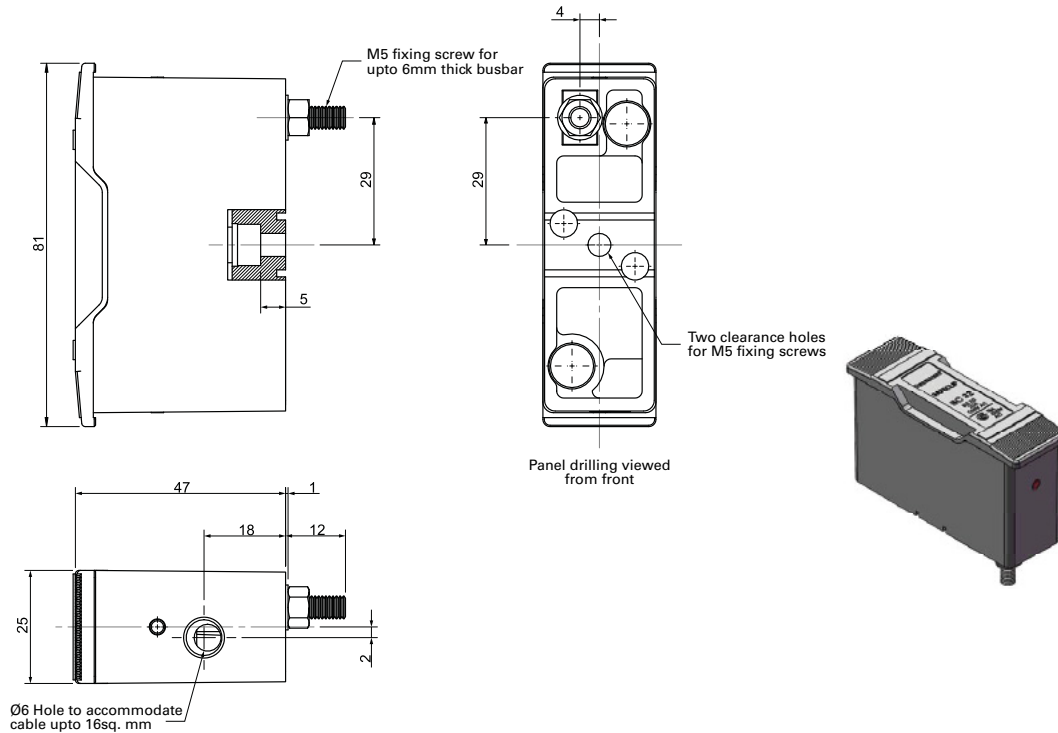


[Data sheet: 10137](#)

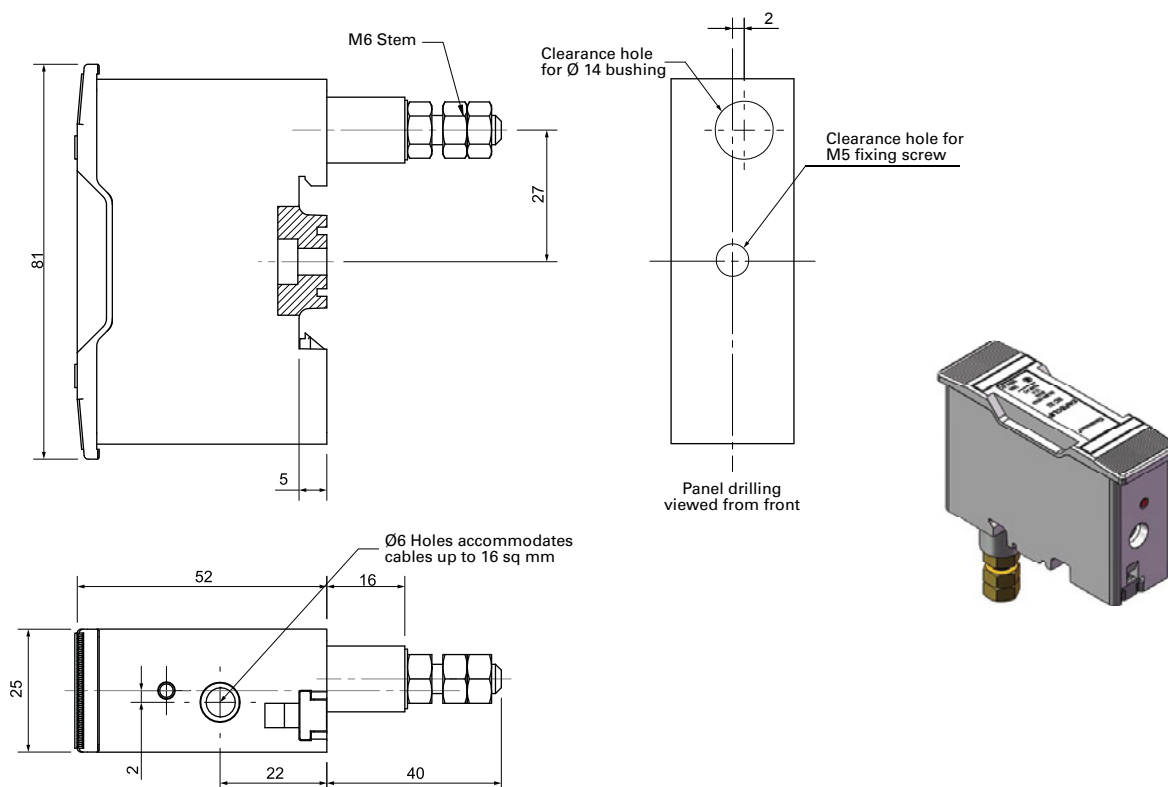
## Safeclip fuse holders

## Dimensions - mm

## SC32BH 32 A, Busbar/Front connected



## SC32PH-D 32 A, Front/Back stud connected



Data sheet: [10137](#)

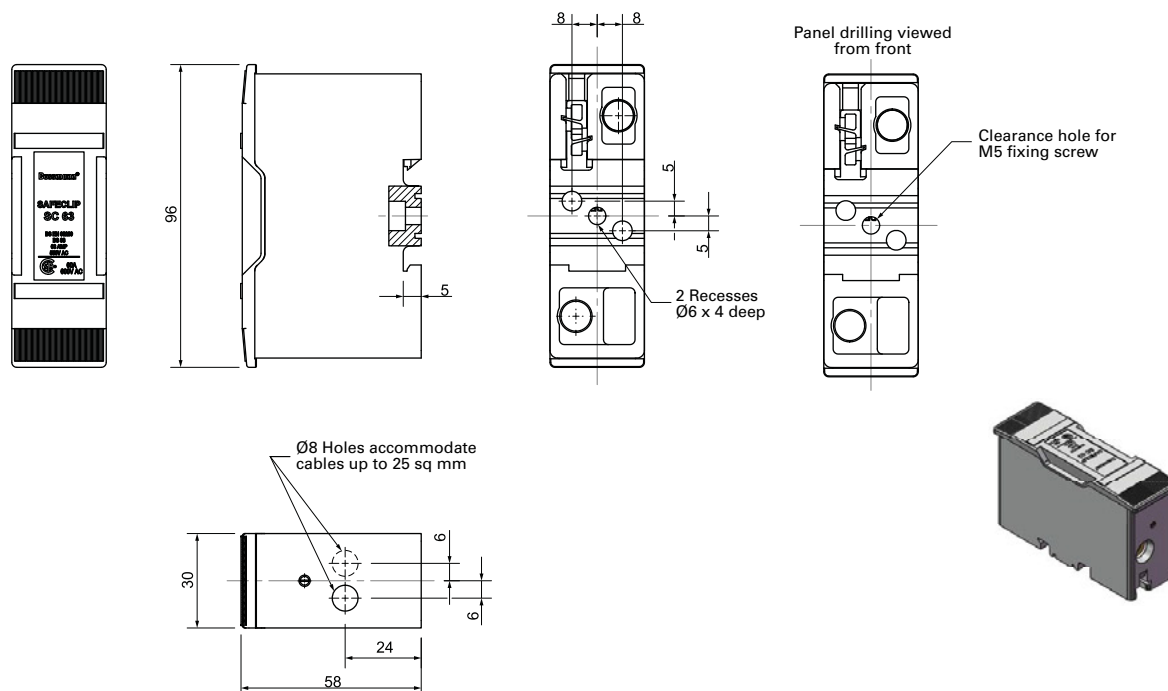
# BS88 Fuse holders

Safeclip fuse holders

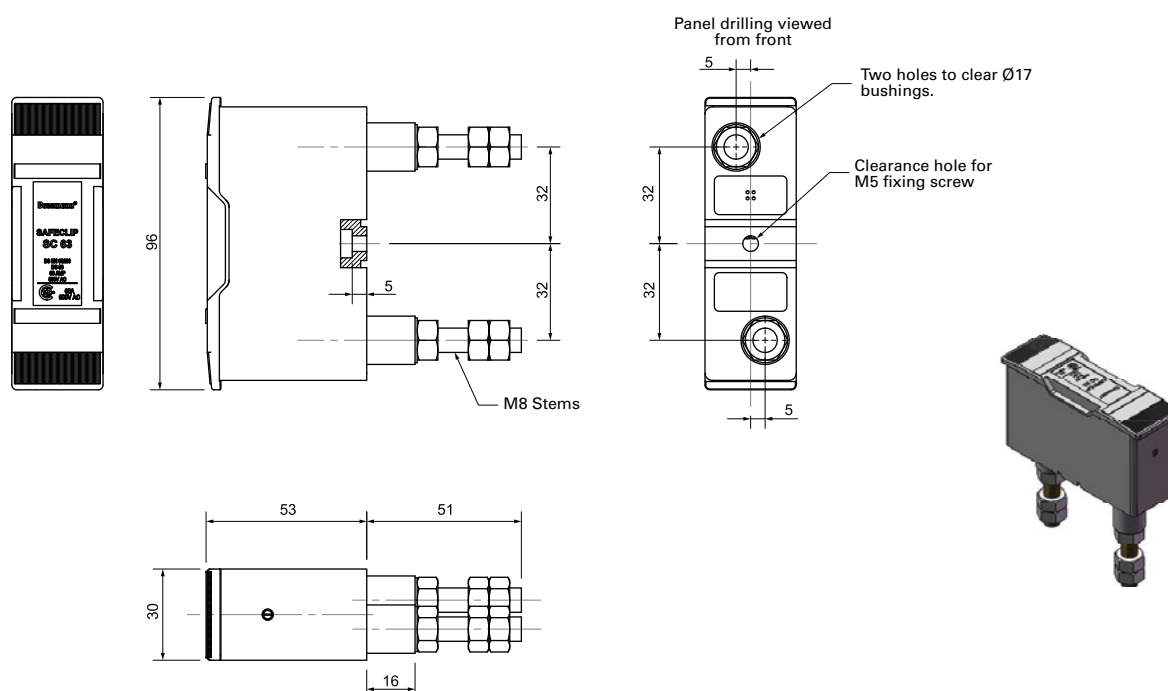
## Safeclip fuse holders

Dimensions - mm

### SC63H-D 63 A, Front connected



### SC63P 63 A, Back stud connected

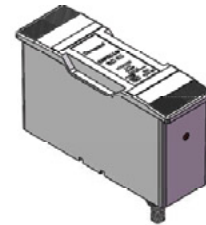
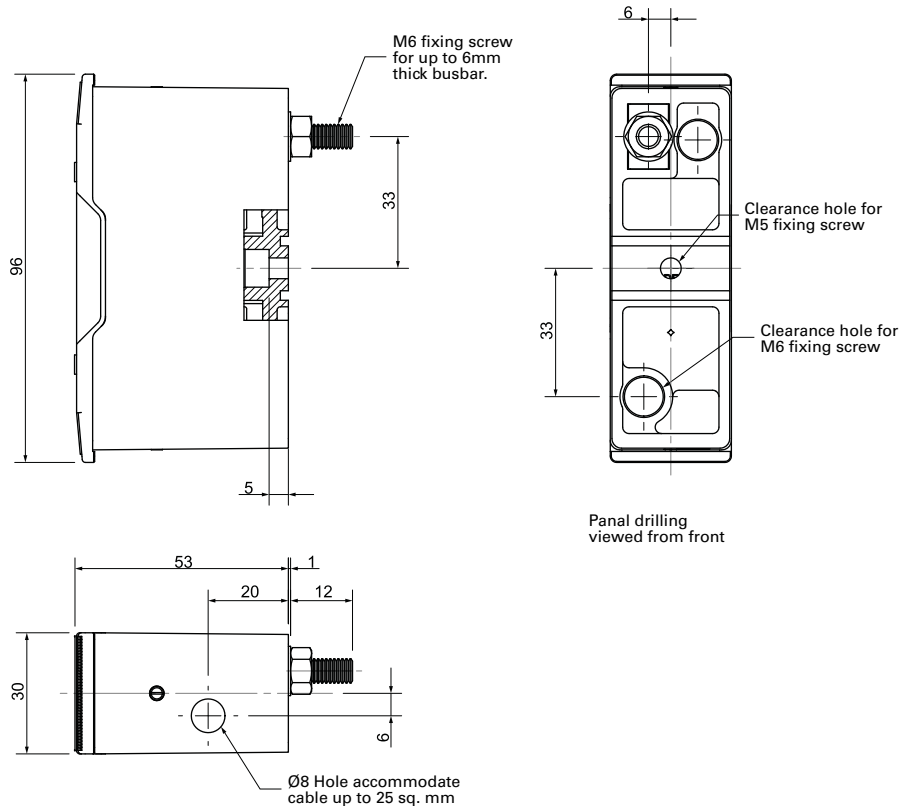


[Data sheet: 10137](#)

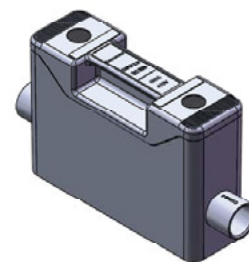
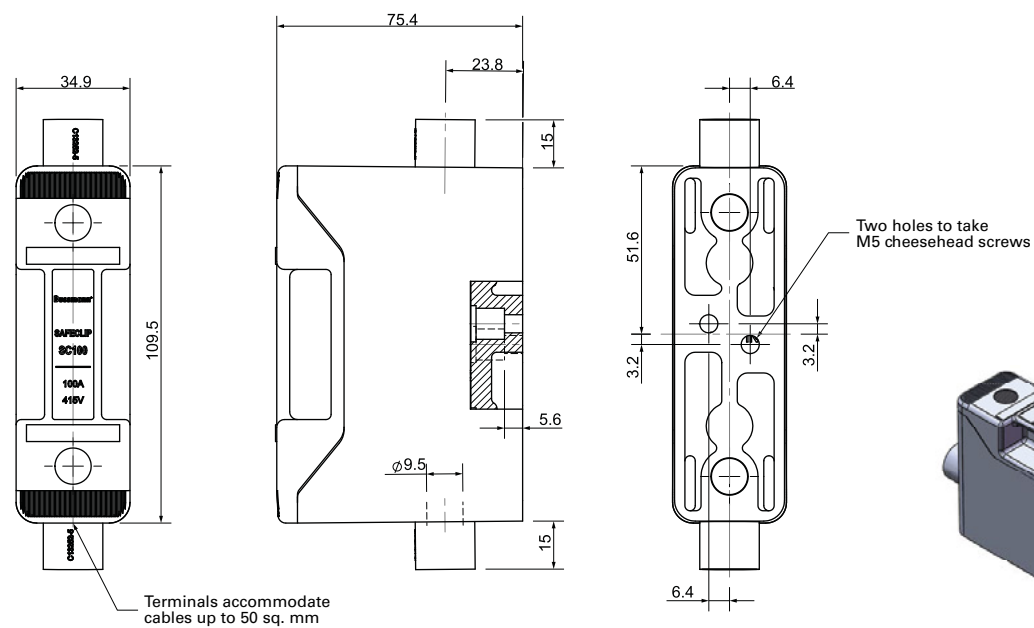
## Safeclip fuse holders

## Dimensions - mm

## SC63BH 63 A Busbar/front connected



## SC100H 100 A, Front connected



Data sheet: [10137](#)

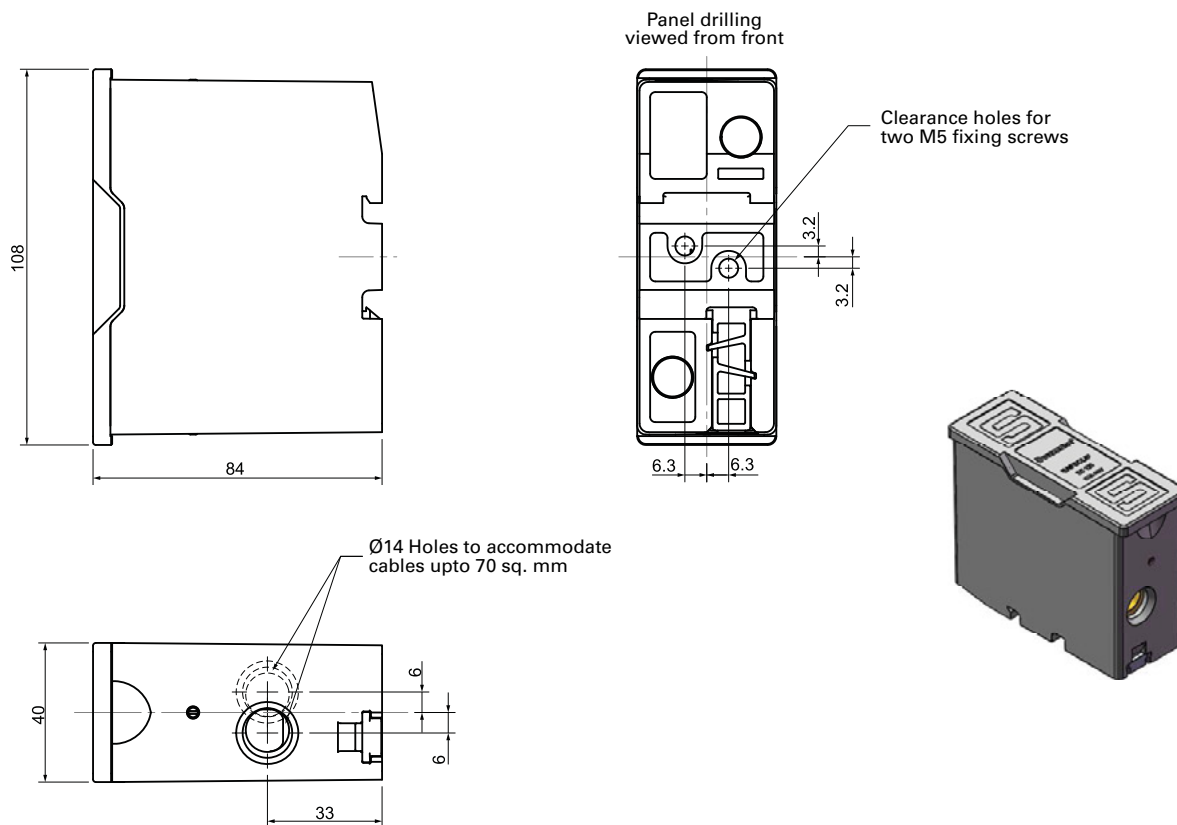
# BS88 Fuse holders

Safeclip fuse holders

## Safeclip fuse holders

Dimensions - mm

SC125H-D 125 A, Front connected



[Data sheet: 10137](#)

## Red spot fuse holders

### Specifications

#### Description

BS Fuse holders specifically designed to fit BS fuse links.

#### Technical data

Rated voltage: 660-690 V a.c. / 460 V d.c.

Rated current: 20 to 400 A

#### Standard/agency information

BS88 and IEC 60269-1

#### Product selection



| Catalog number | Description                        | Colour | Rated current (Amps) | Rated voltage             | Minimum conductor size (mm <sup>2</sup> ) | Maximum conductor size (mm <sup>2</sup> ) | Pack quantity | Compatible fuse links |
|----------------|------------------------------------|--------|----------------------|---------------------------|-------------------------------------------|-------------------------------------------|---------------|-----------------------|
| RS20H          | Front connected                    | Black  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20HWH        | Front connected                    | White  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20HGN        | Front connected                    | Green  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20HGY        | Front connected                    | Grey   | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20P-G        | Back stud connected                | Black  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20P-GWH      | Back stud connected                | White  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20P-GGN      | Back stud connected                | Green  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20P-GGY      | Back stud connected                | Grey   | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20PH-G       | Front/back stud connected          | Black  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20F          | Back stud connected, flush mounted | Black  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20FWH        | Back stud connected, flush mounted | White  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20FGN        | Back stud connected, flush mounted | Green  | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS20FGY        | Back stud connected, flush mounted | Grey   | 20                   | 660-690 V a.c./460 V d.c. | 1                                         | 10                                        | 10            | NITD*, NIT            |
| RS32H          | Front connected                    | Black  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS32HWH        | Front connected                    | White  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS32HGN        | Front connected                    | Green  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS32P          | Back stud connected                | Black  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS32PWH        | Back stud connected                | White  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS32PGN        | Back stud connected                | Green  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS32PH         | Front/back stud connected          | Black  | 32                   | 660-690 V a.c./460 V d.c. | 1                                         | 16                                        | 10            | TIA, AAO, H07-660     |
| RS63H          | Front connected                    | Black  | 63                   | 660-690 V a.c./460 V d.c. | 4                                         | 50                                        | 10            | TIS, BAO              |
| RS63HWH        | Front connected                    | White  | 63                   | 660-690 V a.c./460 V d.c. | 4                                         | 50                                        | 10            | TIS, BAO              |
| RS63P          | Back stud connected                | Black  | 63                   | 660-690 V a.c./460 V d.c. | 4                                         | 50                                        | 10            | TIS, BAO              |
| RS63PWH        | Back stud connected                | White  | 63                   | 660-690 V a.c./460 V d.c. | 4                                         | 50                                        | 10            | TIS, BAO              |
| RS63PH         | Front/back stud connected          | Black  | 63                   | 660-690 V a.c./460 V d.c. | 4                                         | 50                                        | 10            | TIS, BAO              |
| RS63PHWH       | Front/back stud connected          | White  | 63                   | 660-690 V a.c./460 V d.c. | 4                                         | 50                                        | 10            | TIS, BAO              |
| RS100H         | Front connected                    | Black  | 100                  | 660-690 V a.c./460 V d.c. | 6                                         | 70                                        | 5             | TCP, CEO              |
| RS100HWH       | Front connected                    | White  | 100                  | 660-690 V a.c./460 V d.c. | 6                                         | 70                                        | 5             | TCP, CEO              |
| RS100P         | Back stud connected                | Black  | 100                  | 660-690 V a.c./460 V d.c. | 6                                         | 70                                        | 5             | TCP, CEO              |
| RS100PWH       | Back stud connected                | White  | 100                  | 660-690 V a.c./460 V d.c. | 6                                         | 70                                        | 5             | TCP, CEO              |
| RS100PH        | Front/back stud connected          | Black  | 100                  | 660-690 V a.c./460 V d.c. | 6                                         | 70                                        | 5             | TCP, CEO              |

\* NITD up to 20 A only

[Data sheet: 10024](#)

# BS88 Fuse holders

## Red spot fuse holders

## Red spot fuse holders

| Catalog number | Description               | Colour | Rated current (Amps) | Rated voltage            | Minimum conductor size (mm <sup>2</sup> ) | Maximum conductor size (mm <sup>2</sup> ) | Pack quantity | Compatible fuse links |
|----------------|---------------------------|--------|----------------------|--------------------------|-------------------------------------------|-------------------------------------------|---------------|-----------------------|
| RS200H         | Front connected           | Black  | 200                  | 660-690 V a.c./460 V d.c | 10                                        | 120                                       | 1             | TF, DD                |
| RS200HWH       | Front connected           | White  | 200                  | 660-690 V a.c./460 V d.c | 10                                        | 120                                       | 1             | TF, DD                |
| RS200P         | Back stud connected       | Black  | 200                  | 660-690 V a.c./460 V d.c | 10                                        | 120                                       | 1             | TF, DD                |
| RS200PWH       | Back stud connected       | White  | 200                  | 660-690 V a.c./460 V d.c | 10                                        | 120                                       | 1             | TF, DD                |
| RS200PH        | Front/back stud connected | Black  | 200                  | 660-690 V a.c./460 V d.c | 10                                        | 120                                       | 1             | TF, DD                |
| RS400H         | Front connected           | Black  | 400                  | 660-690 V a.c./460 V d.c | 25                                        | 240                                       | 1             | TM, EF                |
| RS400P         | Back stud connected       | Black  | 400                  | 660-690 V a.c./460 V d.c | 25                                        | 240                                       | 1             | TM, EF                |
| RS400PH        | Front/back stud connected | Black  | 400                  | 660-690 V a.c./460 V d.c | 25                                        | 240                                       | 1             | TM, EF                |

## Accessories

| Catalog numbers | Description             | Pack quantity | Compatible fuse links       | Compatible fuse holders |
|-----------------|-------------------------|---------------|-----------------------------|-------------------------|
| RS20LOCK        | Padlockable inserts     | 20            | N/A                         | RS20                    |
| RS32LOCK        | Padlockable inserts     | 10            | N/A                         | RS32                    |
| RS63LOCK        | Padlockable inserts     | 10            | N/A                         | RS63                    |
| RS100LOCK       | Padlockable inserts     | 10            | N/A                         | RS100                   |
| RS20RED         | Red warning carriers    | 10            | N/A                         | RS20                    |
| RS32RED         | Red warning carriers    | 10            | N/A                         | RS32                    |
| RS63RED         | Red warning carriers    | 10            | N/A                         | RS63                    |
| RS100RED        | Red warning carriers    | 1             | N/A                         | RS100                   |
| P5372-10        | Fuse link adaptors kits | 1             | TIA, TIS, AAO, BAO          | RS100                   |
| TCA2            | Fuse link adaptor kits  | 1             | AD, BD, CD, DD, TBC, TC, TF | RS400                   |



RS-LOCK



RS-RED



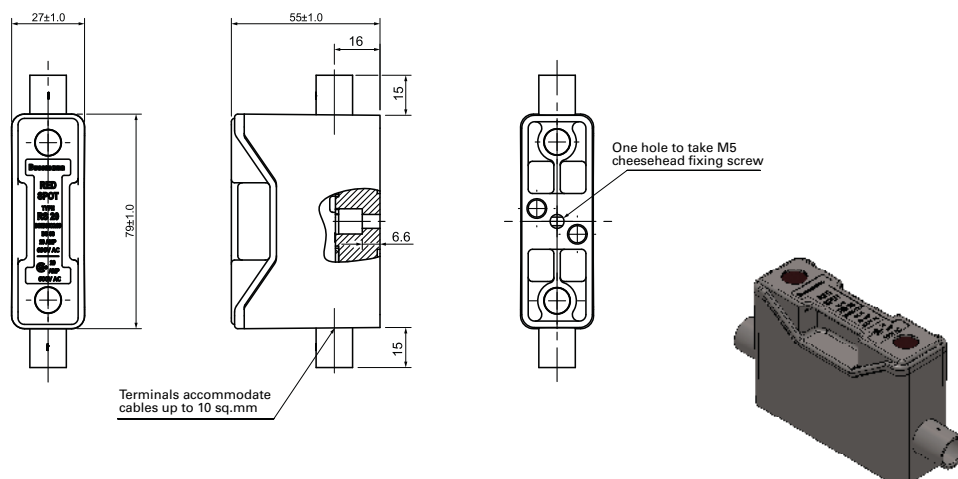
P5372-10



TCA2

## Dimensions - mm

### RS20H 20 A, Front connected

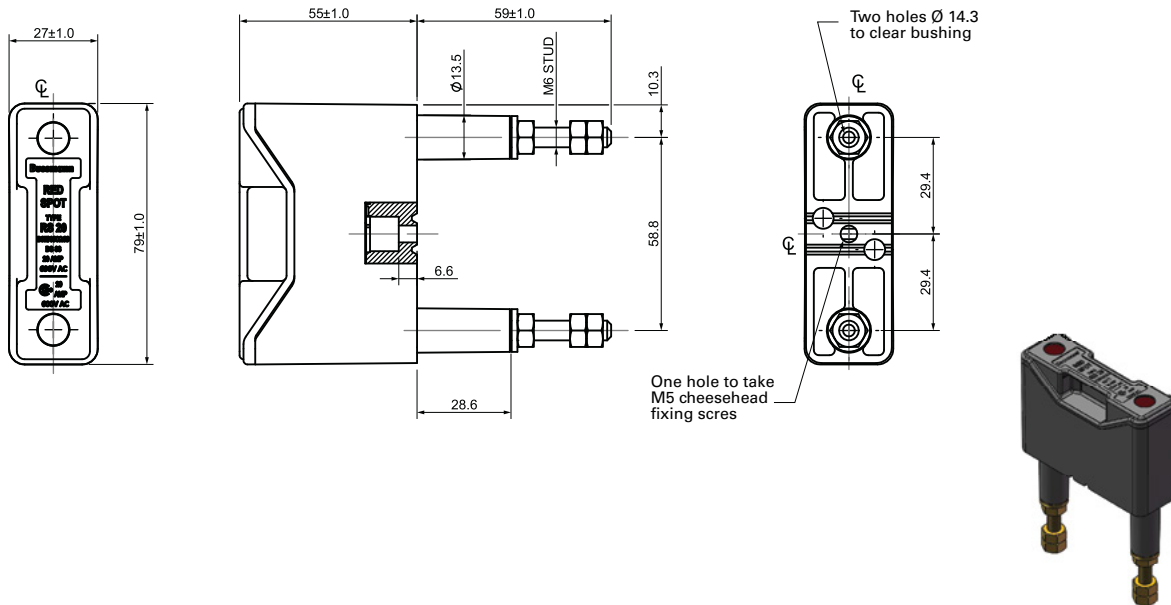


Data sheet: [10024](#)

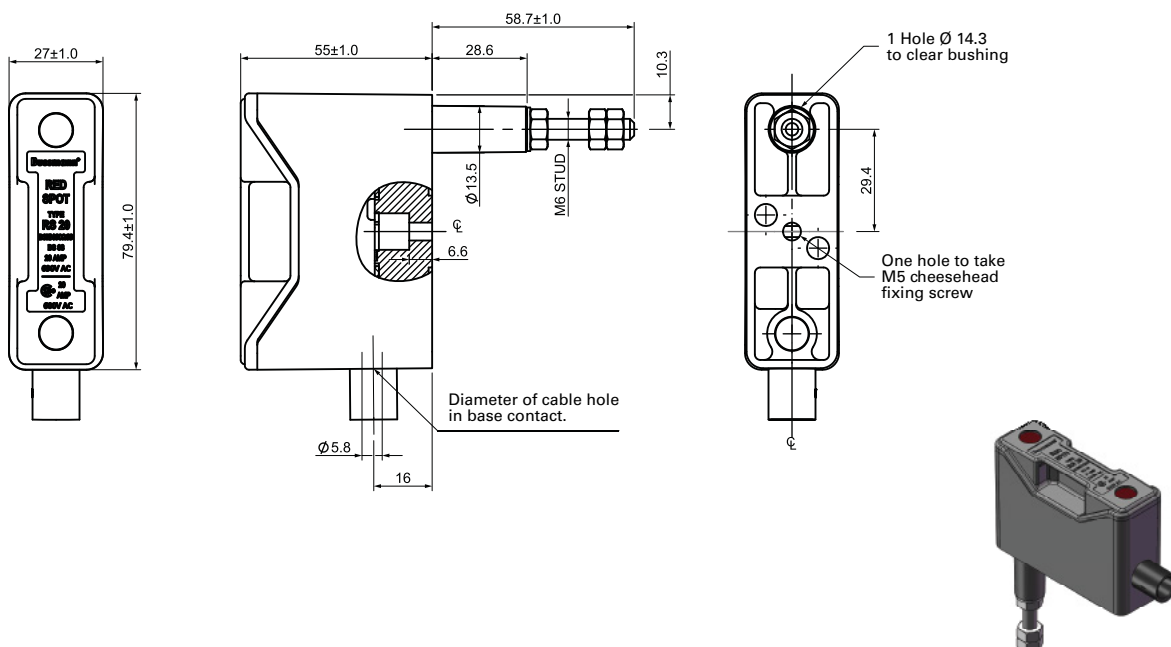
### Red spot fuse holders

#### Dimensions - mm

##### RS20P-G 20 A, Back stud connected



##### RS20PH-G 20 A, Front / Back stud connected



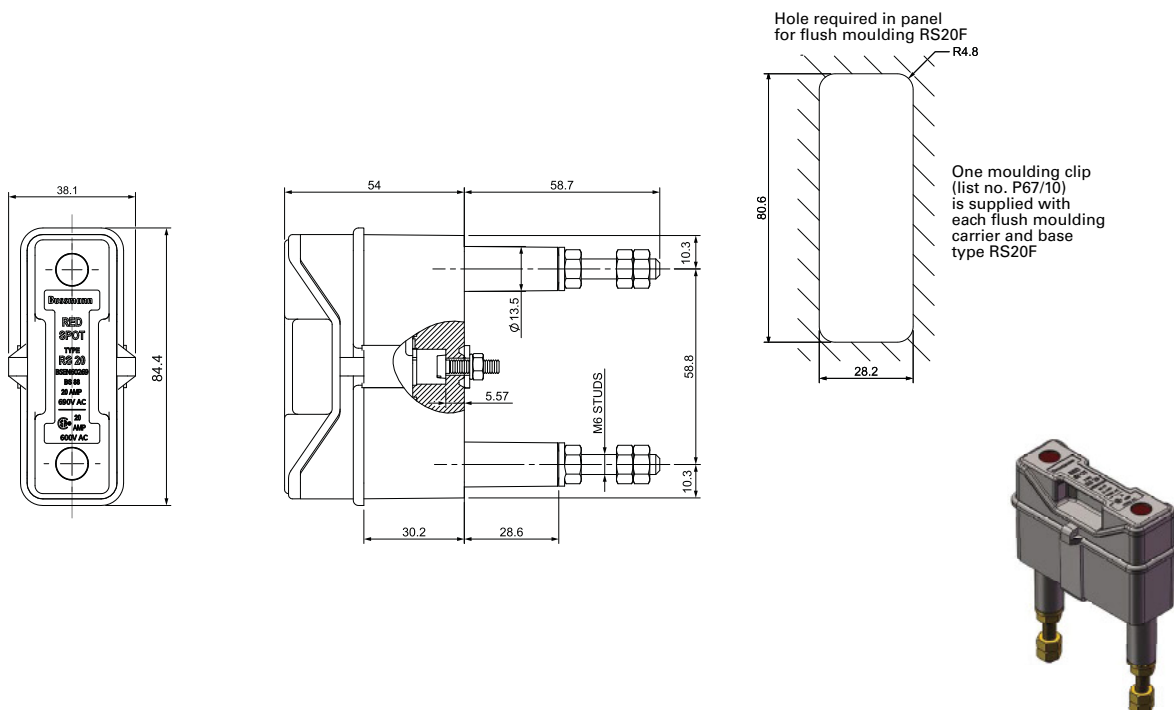
# BS88 Fuse holders

Red spot fuse holders

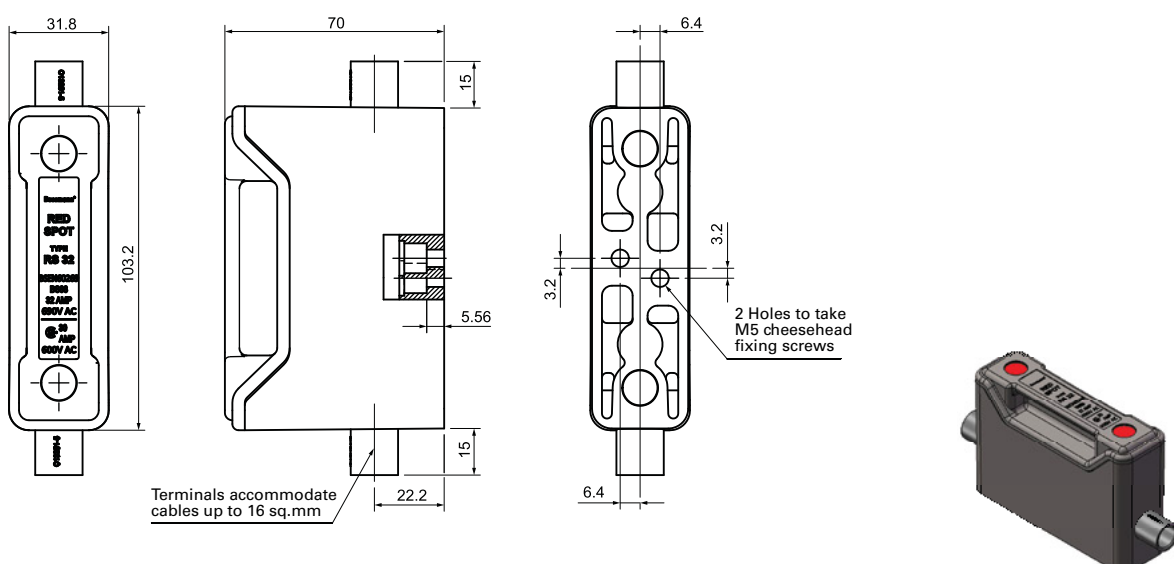
## Red spot fuse holders

Dimensions - mm

RS20F 20 A, Back stud connected - Flush mounted



RS32H 32 A, Front connected

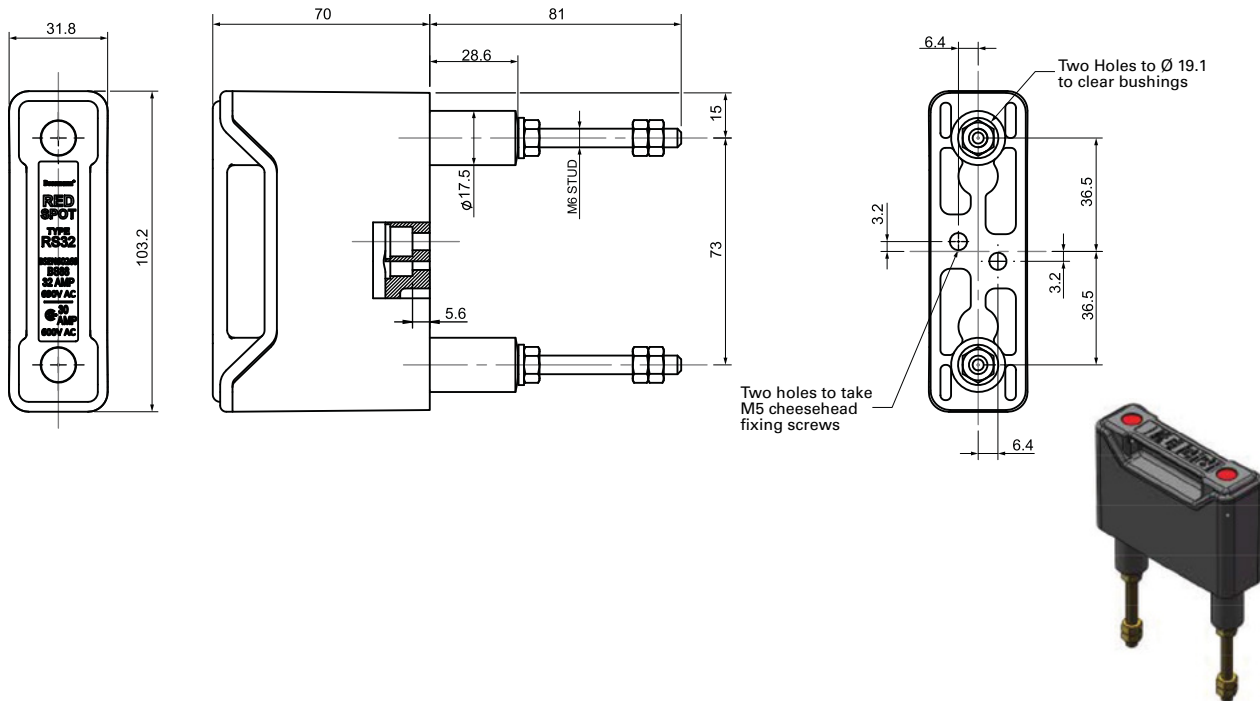


[Data sheet: 10024](#)

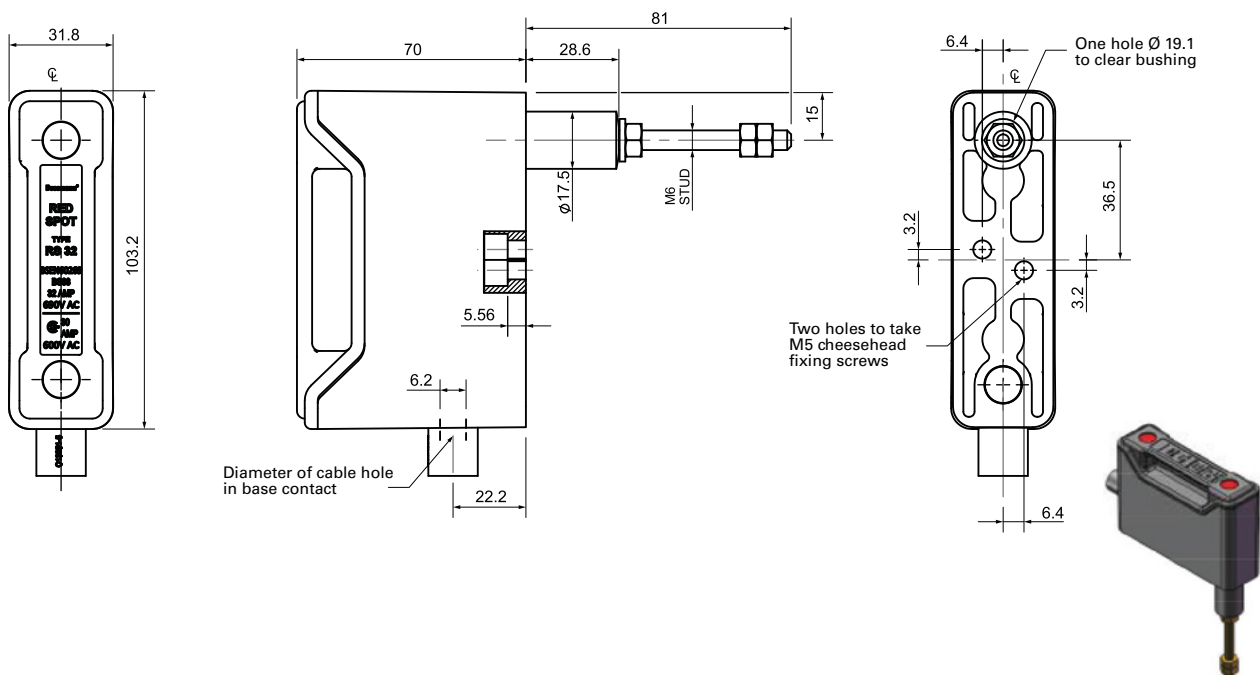
### Red spot fuse holders

#### Dimensions - mm

##### RS32P 32 A, Back stud connected



##### RS32PH 32 A, Front / Back stud connected



## Red spot fuse holders

### Dimensions - mm

34.9

109.5

RED SPOT  
THE  
RS563

RECOMMENDED  
60 AMP  
600V AC

60 AMP  
600V AC

75.4

23.8

15

5.6

15

$\phi 9.5$

51.6

3.2

6.4

3.2

6.4

2 Holes to take M5  
cheesehead fixing screws

Terminals accommodate  
cables up to 50 sq.mm

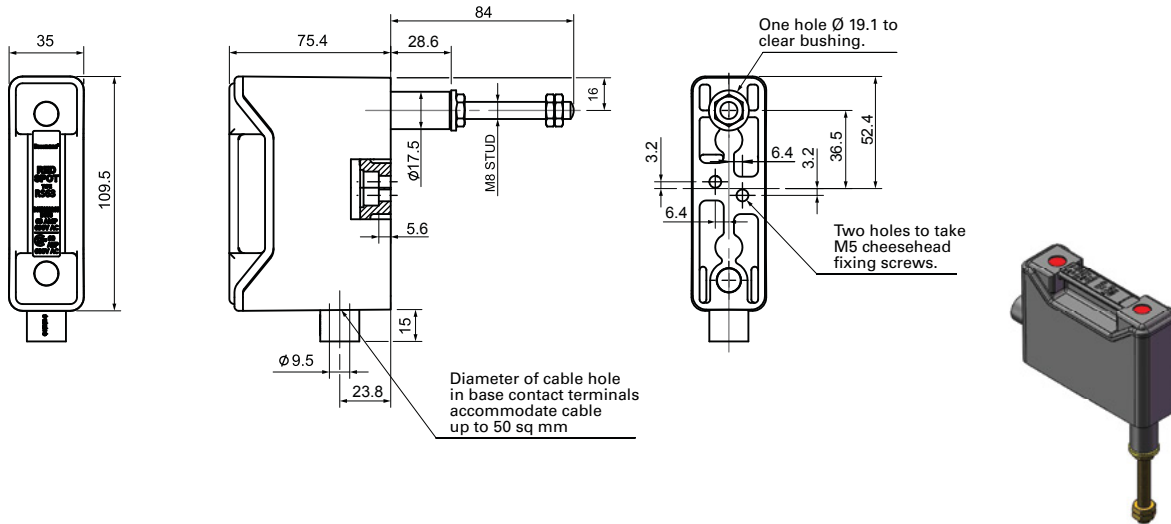
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100

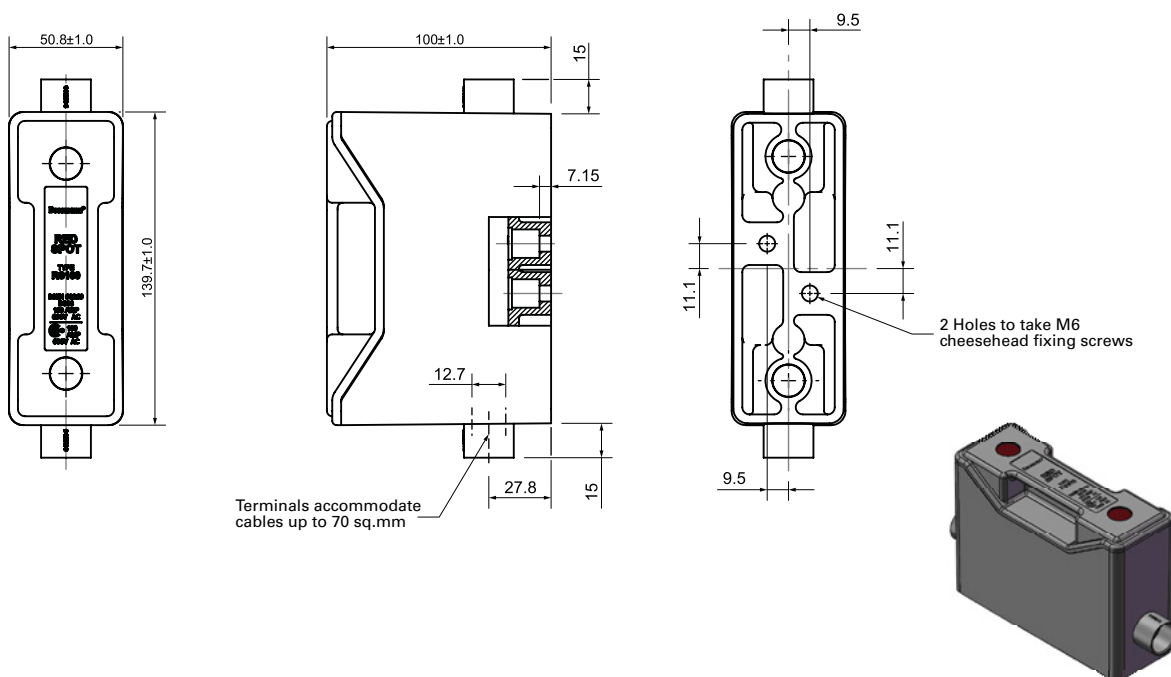
### Red spot fuse holders

#### Dimensions - mm

##### RS63PH 63 A, Front / back stud connected



##### RS100H 100 A, Front connected



## Red spot fuse holders

### Dimensions - mm

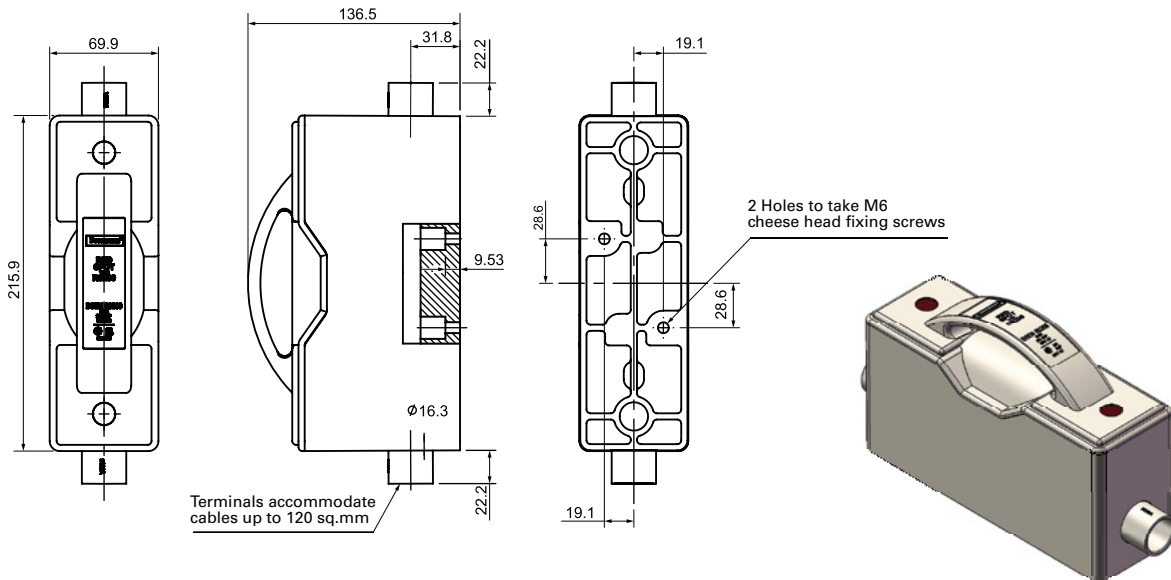
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102

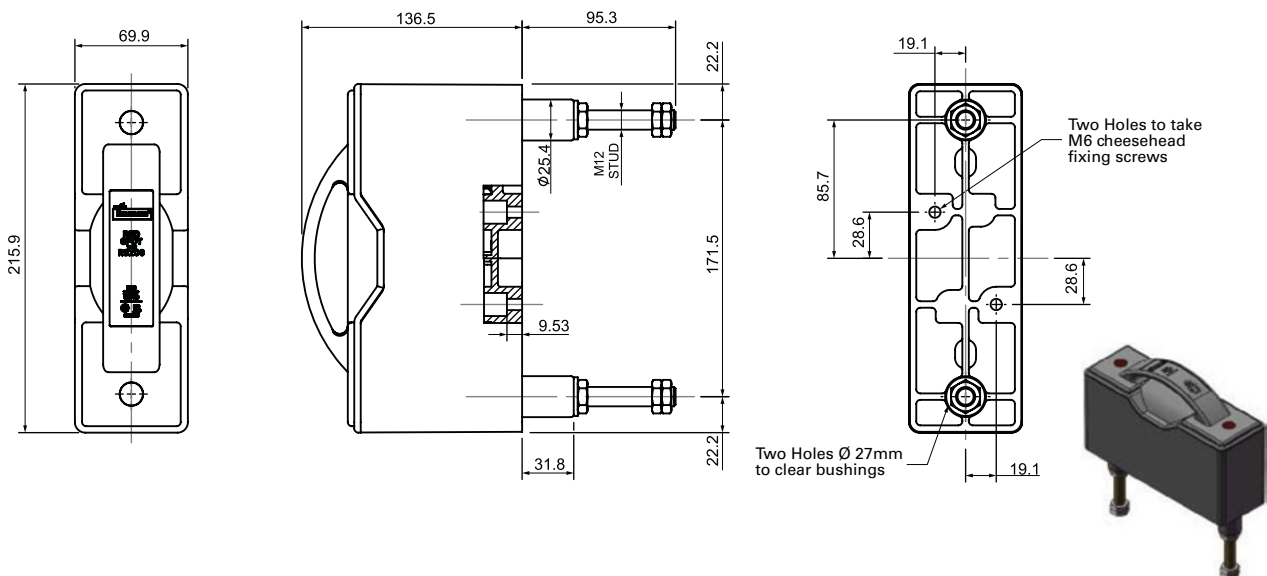
### Red spot fuse holders

#### Dimensions - mm

##### RS200H 200 A, Front connected



##### RS200P Back stud connected



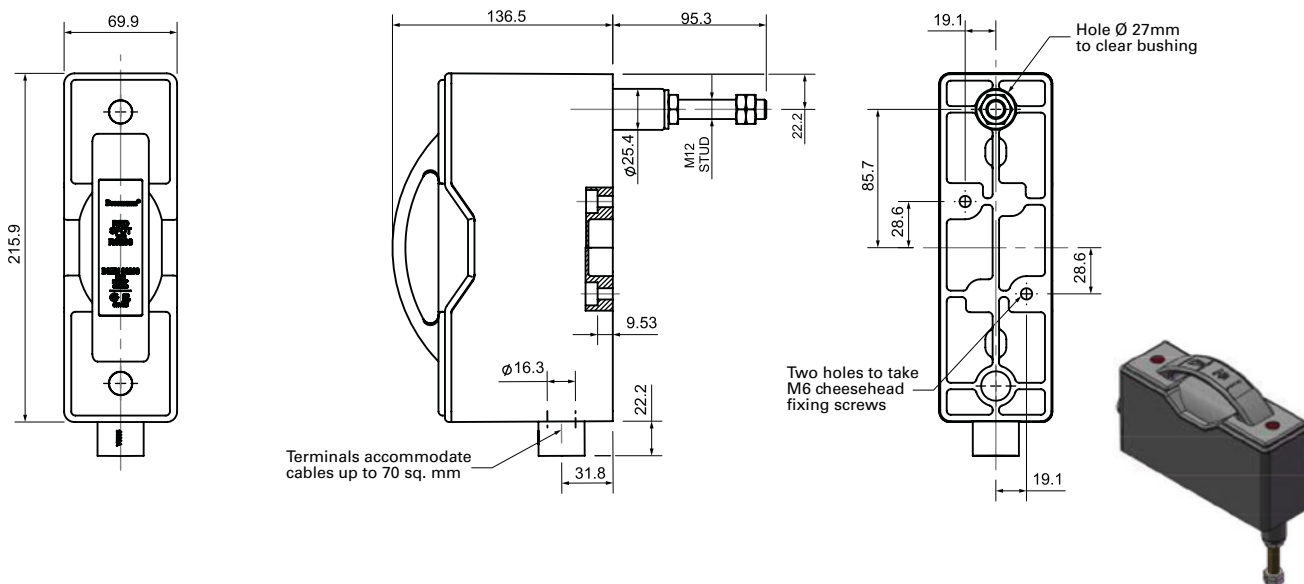
# BS88 Fuse holders

Red spot fuse holders

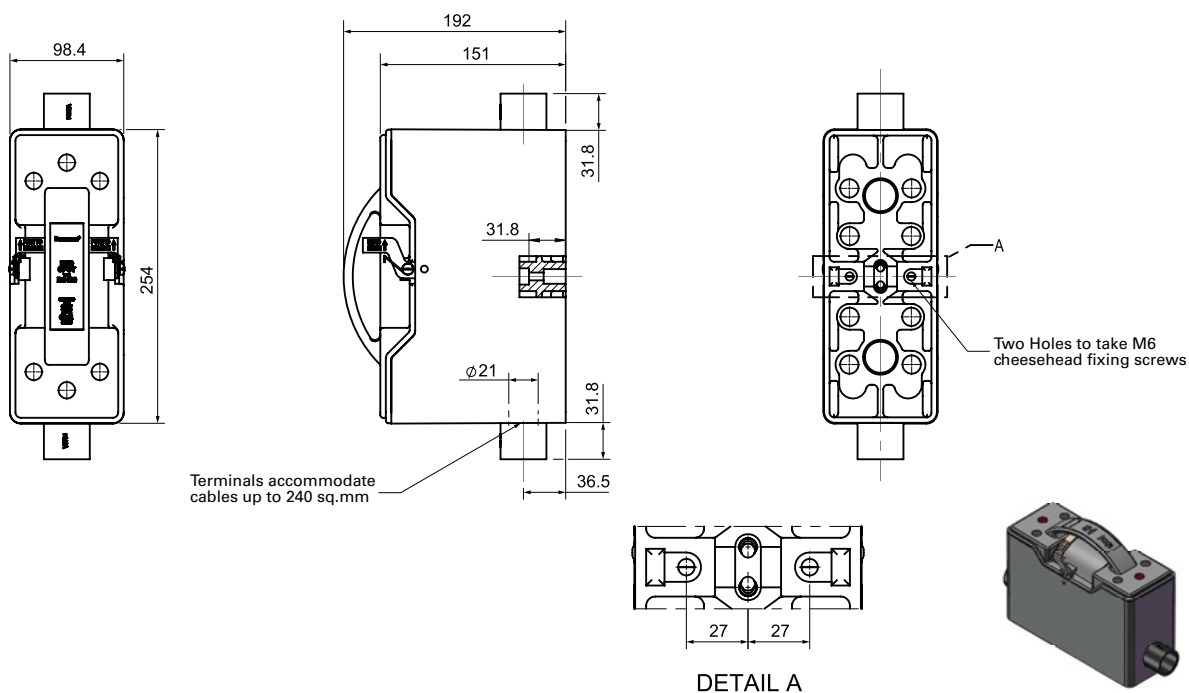
## Red spot fuse holders

Dimensions- mm

### RS200PH Front/back stud connected



### RS400H Front connected

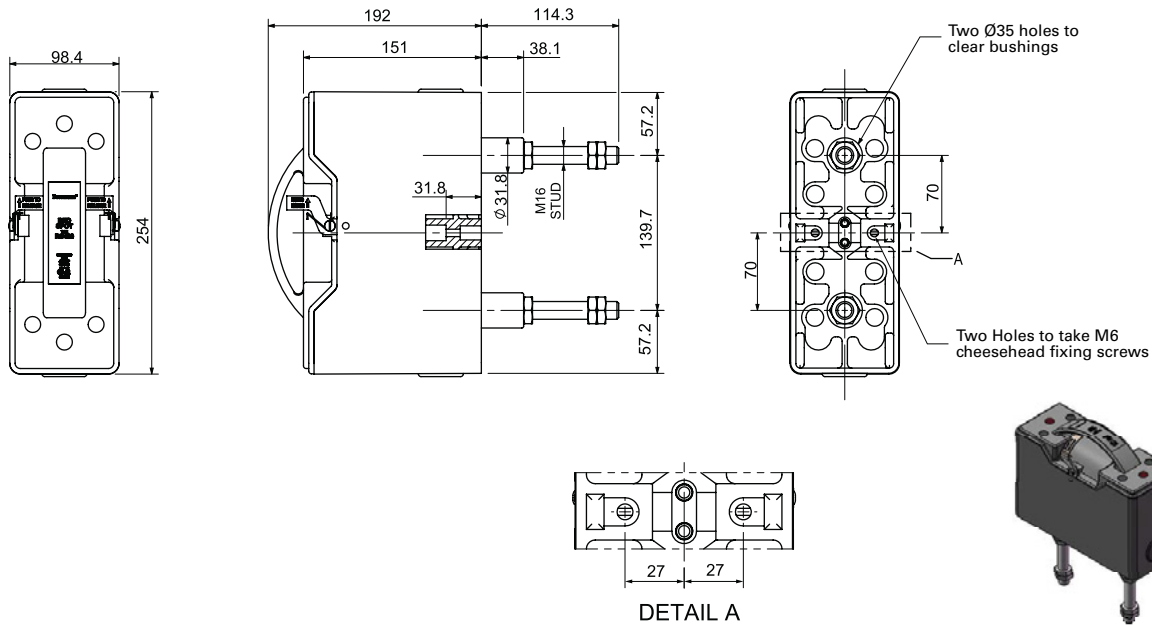


Data sheet: [10024](#)

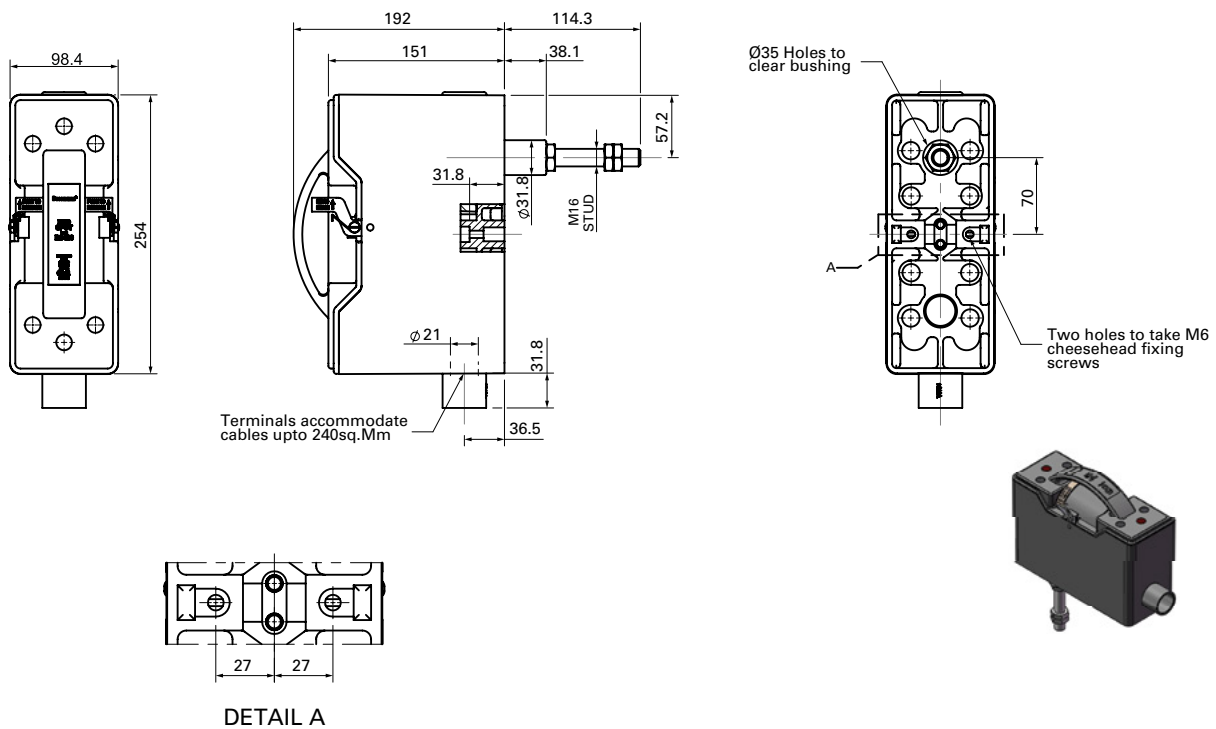
### Red spot fuse holders

#### Dimensions - mm

##### RS400P Back stud connected



##### RS400PH Front/back stud connected



# Street lighting applications to BS88

## Cylindrical fuse links

### Cylindrical fuse links

#### Specifications

##### Description

General fuse links for general street lighting applications with Q1 fusing purpose

##### Technical data

Rated voltage: 415 V a.c.  
Rated current: 2 to 32 A  
Breaking capacity: 80 kA at 415 V a.c.

##### Standard/agency information

Meets BS88 Part 1 and 2, IEC 60269 parts 1

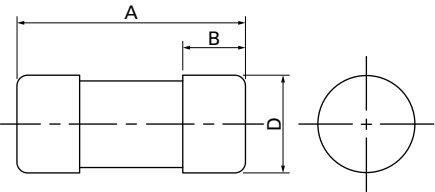
##### Product selection

#### SMD, class gG, 415 V a.c., 2 to 32 A



| Catalog number | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Pack quantity |
|----------------|---------------|----------------------|---------------------|-----------------|---------------|
| SMD2           | 415 V a.c.    | 2                    | 80 kA at 415 V a.c. | gG              | 20            |
| SMD4           | 415 V a.c.    | 4                    | 80 kA at 415 V a.c. | gG              | 20            |
| SMD6           | 415 V a.c.    | 6                    | 80 kA at 415 V a.c. | gG              | 20            |
| SMD10          | 415 V a.c.    | 10                   | 80 kA at 415 V a.c. | gG              | 20            |
| SMD16          | 415 V a.c.    | 16                   | 80 kA at 415 V a.c. | gG              | 20            |
| SMD20          | 415 V a.c.    | 20                   | 80 kA at 415 V a.c. | gG              | 20            |
| SMD25          | 415 V a.c.    | 25                   | 80 kA at 415 V a.c. | gG              | 20            |
| SMD32          | 415 V a.c.    | 32                   | 80 kA at 415 V a.c. | gG              | 20            |

#### Dimensions - mm



| Catalog numbers | A  | B    | D  |
|-----------------|----|------|----|
| SMD             | 29 | 12.7 | 16 |

## Offset bolted tags fuse links

### Specifications

#### Description

General fuse links for general street lighting applications with Q1 fusing purpose

#### Technical data

Rated voltage: 240 V a.c.  
 Rated current: 2 to 32 A  
 Breaking capacity: 33 kA at 240 V a.c.

#### Standard/agency information

Meets BS88 Part 1 and 2, IEC 60269 parts 1

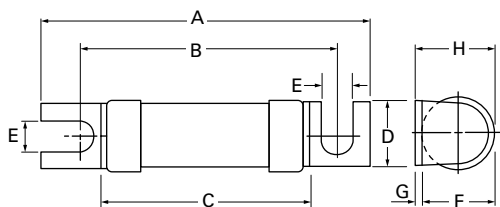
#### Product selection

#### STD, class gG, 240 V a.c., 2 to 32 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|---------------|
| STD2            | 240 V a.c.    | 2                    | 33 kA at 240 V a.c. | gG              | 20            |
| STD4            | 240 V a.c.    | 4                    | 33 kA at 240 V a.c. | gG              | 20            |
| STD6            | 240 V a.c.    | 6                    | 33 kA at 240 V a.c. | gG              | 20            |
| STD10           | 240 V a.c.    | 10                   | 33 kA at 240 V a.c. | gG              | 20            |
| STD16           | 240 V a.c.    | 16                   | 33 kA at 240 V a.c. | gG              | 20            |
| STD20           | 240 V a.c.    | 20                   | 33 kA at 240 V a.c. | gG              | 20            |
| STD25           | 240 V a.c.    | 25                   | 33 kA at 240 V a.c. | gG              | 20            |
| STD32           | 240 V a.c.    | 32                   | 33 kA at 240 V a.c. | gG              | 20            |

#### Dimensions - mm



| Catalog numbers | A  | B  | C  | D  | E   | F  | G   | H  |
|-----------------|----|----|----|----|-----|----|-----|----|
| STD             | 47 | 35 | 24 | 11 | 4.7 | 12 | 0.8 | 13 |

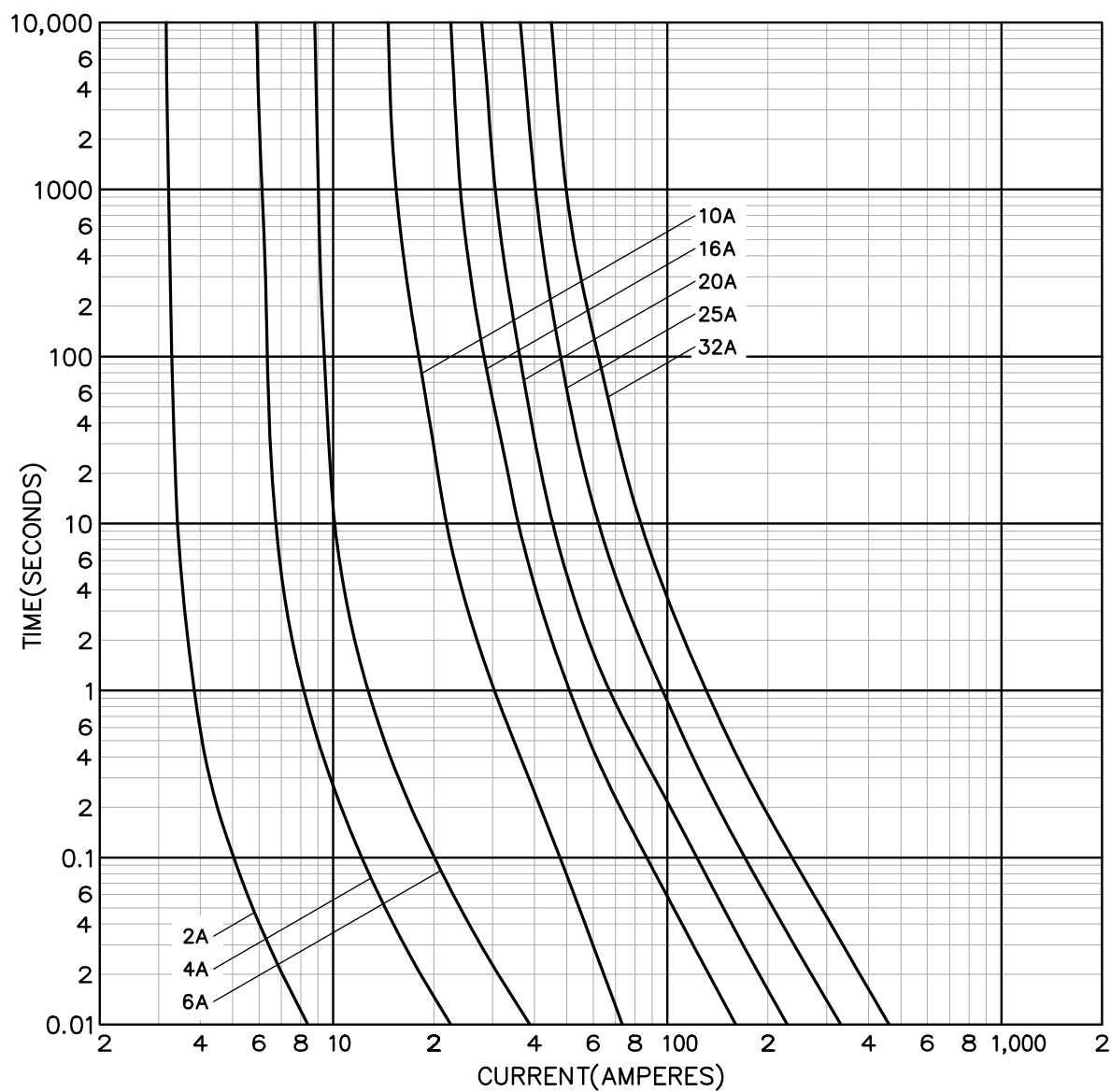
[Data sheet: 4123](#)

# Street lighting applications to BS88

Time-current curve

## Time-current curve

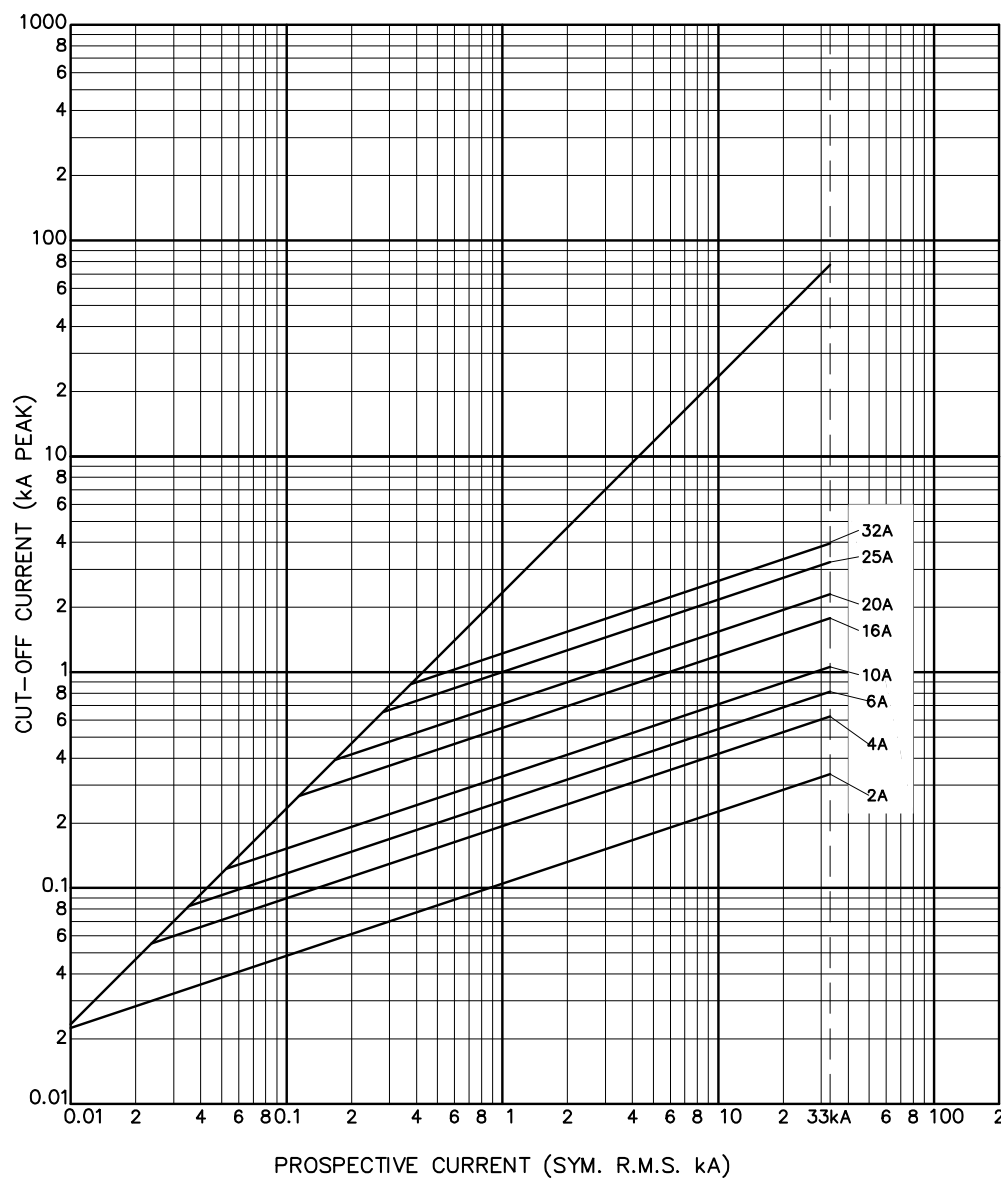
SMD and STD Fuse links



| I²t (Amps² Seconds) |     |            |            |                |                |
|---------------------|-----|------------|------------|----------------|----------------|
| Catalog prefix      |     | Amp rating | Pre-arcing | Total at 240 V | Nom watts loss |
| SMD                 | STD | 2          | 0.8        | 1              | 0.5            |
| SMD                 | STD | 4          | 5.4        | 8              | 1              |
| SMD                 | STD | 6          | 15         | 22             | 1.6            |
| SMD                 | STD | 10         | 28         | 42             | 1.2            |
| SMD                 | STD | 16         | 160        | 250            | 1.5            |
| SMD                 | STD | 20         | 293        | 450            | 1.7            |
| SMD                 | STD | 25         | 800        | 1300           | 1.8            |
| SMD                 | STD | 32         | 1600       | 2500           | 2.4            |

Cut-off curve

SMD and STD Fuse links



# Domestic applications to BS 1361

## Consumer unit fuse links

### Consumer unit fuse links

#### Specifications

##### Description

Cylindrical fuse links for domestic applications in compliance with BS 1361 for the protection of domestic distribution systems.

##### Technical data

Rated voltage: 240 V a.c.  
Rated current: 5 to 45 A  
Breaking capacity: 16.5 kA at 240 V a.c.

##### Standard/agency information

Approved to BS 1361

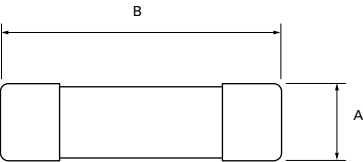
##### Product selection



#### Class gG, 240 V a.c., 5 to 45 A

| Catalog number | Rated voltage | Rated current (Amps) | Breaking capacity     | Operating class | Colour | Pack quantity |
|----------------|---------------|----------------------|-----------------------|-----------------|--------|---------------|
| C55            | 240 V a.c.    | 5                    | 16.5 kA at 240 V a.c. | gG              | White  | 10            |
| C1515          | 240 V a.c.    | 15                   | 16.5 kA at 240 V a.c. | gG              | Blue   | 10            |
| C1520          | 240 V a.c.    | 20                   | 16.5 kA at 240 V a.c. | gG              | Yellow | 10            |
| C3030          | 240 V a.c.    | 30                   | 16.5 kA at 240 V a.c. | gG              | Red    | 10            |
| C4545          | 240 V a.c.    | 45                   | 16.5 kA at 240 V a.c. | gG              | Green  | 10            |

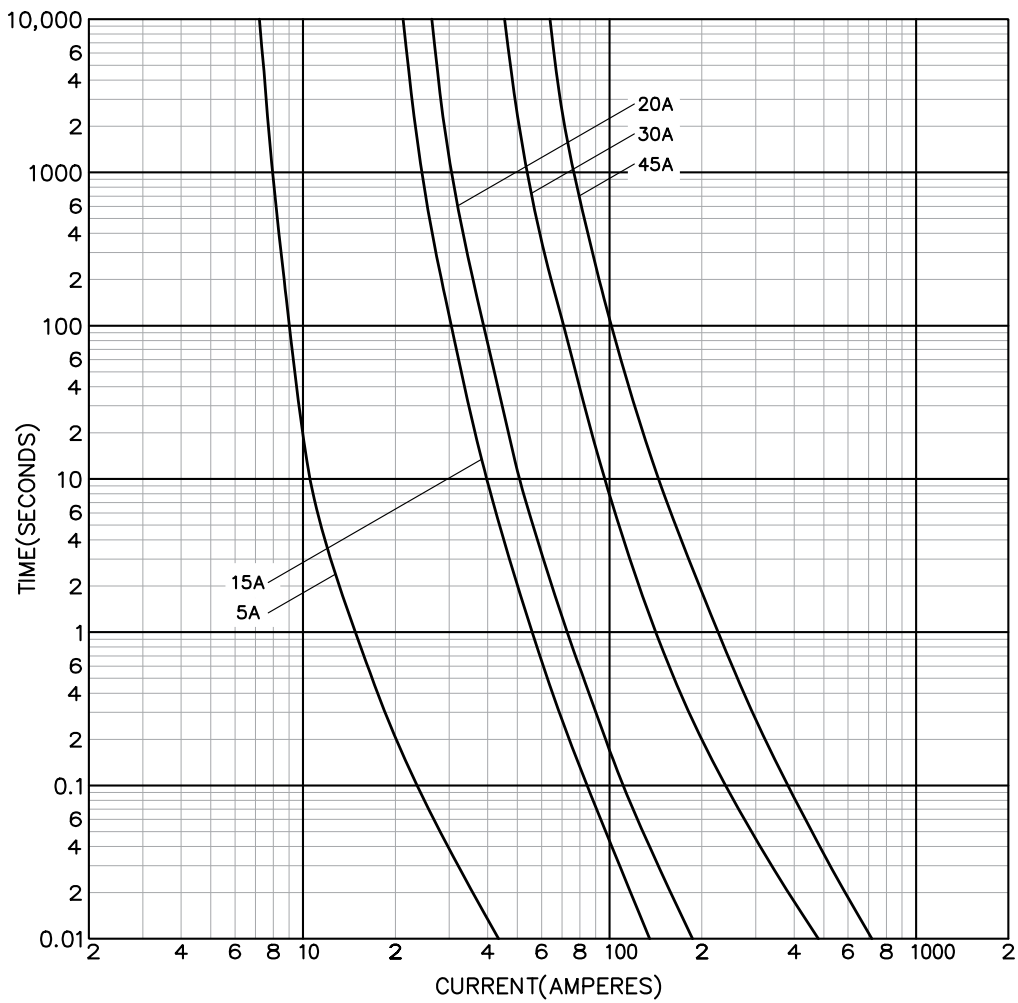
#### Dimensions - mm



| Catalog numbers | A     | B  |
|-----------------|-------|----|
| C55             | 5.35  | 23 |
| C1515           | 10.2  | 26 |
| C1520           | 10.32 | 26 |
| C3030           | 12.7  | 29 |
| C4545           | 16.67 | 35 |

Consumer unit fuse links

Time-current curve



| Catalog numbers | Amp rating | Nom watts loss |
|-----------------|------------|----------------|
| C55             | 5          | 00.7           |
| C1515           | 15         | 1.2            |
| C1520           | 20         | 2.0            |
| C3030           | 30         | 3              |
| C4545           | 45         | N/A            |

# Utility applications to BS88 (BS 1361) - House service cut-out fuse links

KR85 and LR85 Fuse links

## KR85 and LR85 fuse links

### Specifications

#### Description

Cylindrical fuse links to be used in connection with house service cut-out for utility/residential applications.

#### Technical data

Rated voltage: 415 V a.c.  
Rated current: 5 to 100 A  
Breaking capacity: 33 kA at 415 V a.c.

#### Standard/agency information

Asta certified and tested in accordance to BS 88 part 3

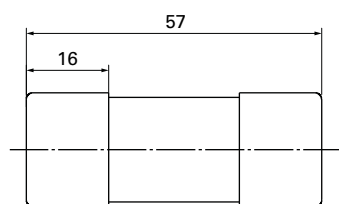
#### Product selection

##### KR85 and LR85, Class gG, 415 V a.c., 5 to 100 A

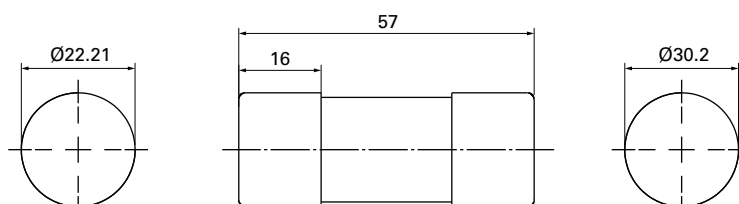


| Catalog number | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | BS 1361 type | Pack quantity |
|----------------|---------------|----------------------|---------------------|-----------------|--------------|---------------|
| 5KR85          | 415 V a.c.    | 5                    | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 10KR85         | 415 V a.c.    | 10                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 20KR85         | 415 V a.c.    | 20                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 25KR85         | 415 V a.c.    | 25                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 30KR85         | 415 V a.c.    | 30                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 40KR85         | 415 V a.c.    | 40                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 45KR85         | 415 V a.c.    | 45                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 50KR85         | 415 V a.c.    | 50                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 60KR85         | 415 V a.c.    | 60                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 80KR85         | 415 V a.c.    | 80                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 90KR85         | 415 V a.c.    | 90                   | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 100KR85        | 415 V a.c.    | 100                  | 33 kA at 415 V a.c. | gG              | IIa          | 20            |
| 30LR85         | 415 V a.c.    | 30                   | 33 kA at 415 V a.c. | gG              | IIb          | 20            |
| 40LR85         | 415 V a.c.    | 40                   | 33 kA at 415 V a.c. | gG              | IIb          | 20            |
| 50LR85         | 415 V a.c.    | 50                   | 33 kA at 415 V a.c. | gG              | IIb          | 20            |
| 60LR85         | 415 V a.c.    | 60                   | 33 kA at 415 V a.c. | gG              | IIb          | 20            |
| 80LR85         | 415 V a.c.    | 80                   | 33 kA at 415 V a.c. | gG              | IIb          | 20            |
| 100LR85        | 415 V a.c.    | 100                  | 33 kA at 415 V a.c. | gG              | IIb          | 20            |

#### Dimensions - mm



KR85

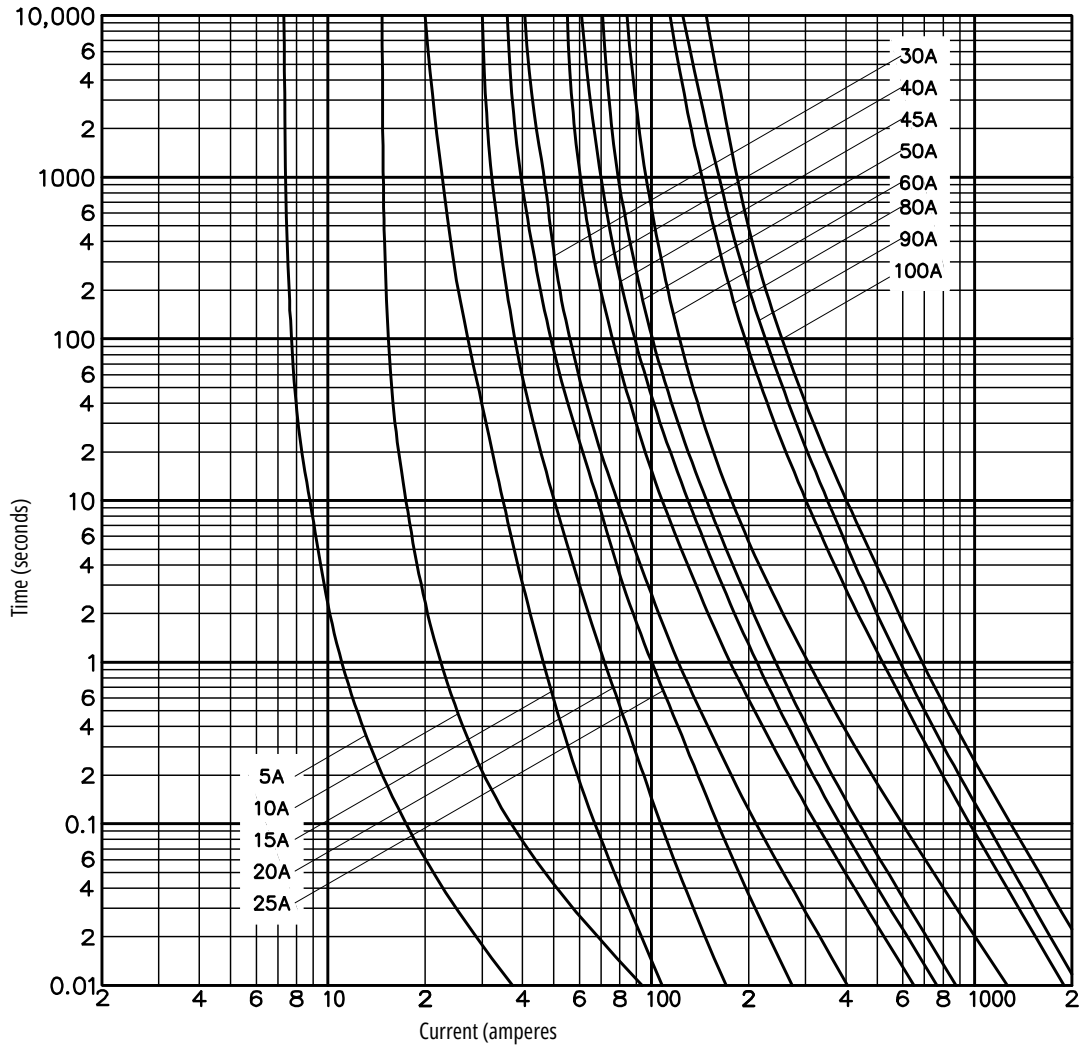


LR85

[Data sheet: 720114](#)

## Time-current curve

## KR85 fuse links

 $I^2t$  (Amps<sup>2</sup> Seconds)

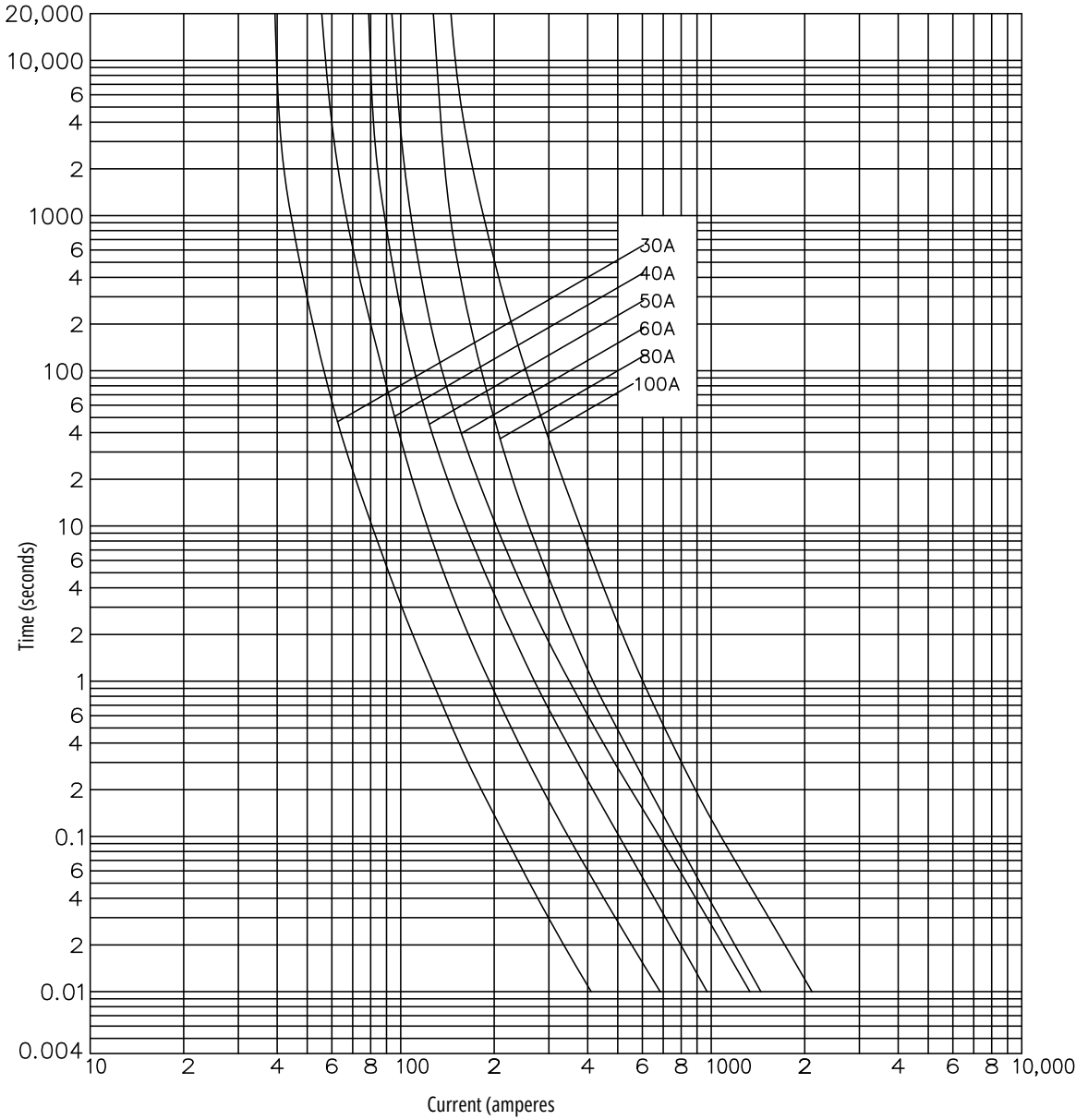
| Catalog number | Amp rating | Pre-arcing | Total at 240 V | Total at 415 V | Nom watts loss |
|----------------|------------|------------|----------------|----------------|----------------|
| 5KR85          | 5          | 8.4        | 15             | 23.5           | 2.5            |
| 10KR85         | 10         | 84         | 150            | 235            | 3.3            |
| 20KR85         | 20         | 215        | 360            | 510            | 2.6            |
| 25KR85         | 25         | 480        | 815            | 1150           | 2.8            |
| 30KR85         | 30         | 1000       | 2700           | 5700           | 3              |
| 40KR85         | 40         | 2500       | 6800           | 14,000         | 3.8            |
| 45KR85         | 45         | 3600       | 9880           | 20,500         | 3.8            |
| 50KR85         | 50         | 4720       | 13,000         | 27,000         | 4.2            |
| 60KR85         | 60         | 9100       | 25,000         | 52,000         | 4.3            |
| 80KR85         | 80         | 24,500     | 41,500         | 58,500         | 5.4            |
| 90KR85         | 90         | 33,000     | 56,500         | 79,500         | 5.7            |
| 100KR85        | 100        | 43,500     | 73,500         | 105,000        | 6.1            |

# Utility applications to BS88 (BS 1361) - House service cut-out fuse links

Time-current curve

## Time-current curve

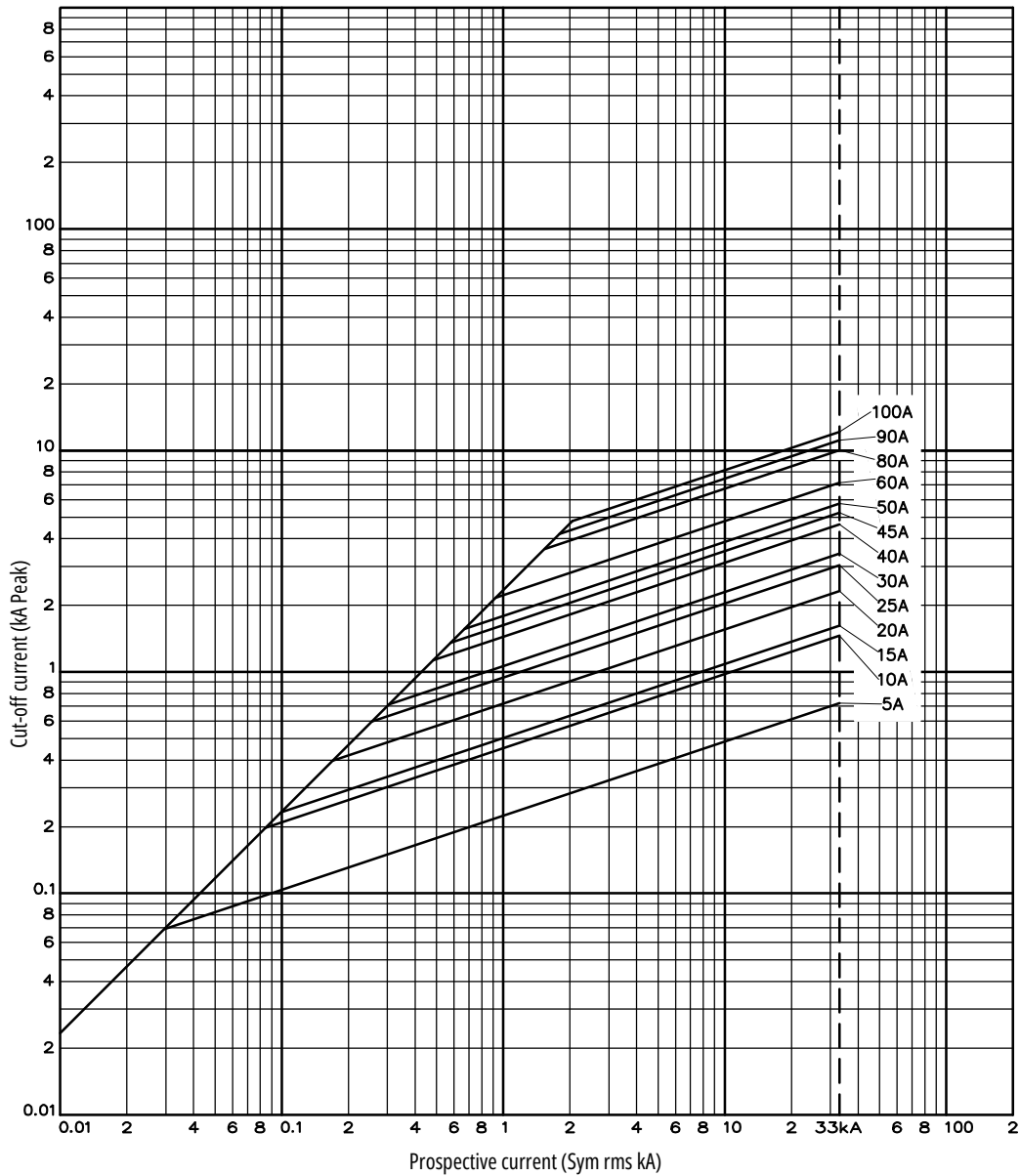
LR85 fuse links



| Catalog number | Amp rating | I²t (Amps² Seconds) |                |                |                |
|----------------|------------|---------------------|----------------|----------------|----------------|
|                |            | Pre-arcing          | Total at 240 V | Total at 415 V | Nom watts loss |
| 30LR85         | 30         | 1200                | 2300           | 3600           | 3.4            |
| 40LR85         | 40         | 3680                | 6900           | 11,000         | 3.5            |
| 50LR85         | 50         | 6360                | 12,000         | 19,100         | 4.1            |
| 60LR85         | 60         | 12,700              | 24,000         | 38,100         | 4.5            |
| 80LR85         | 80         | 13,200              | 38,100         | 82,500         | 4.9            |
| 100LR85        | 100        | 26,900              | 57,300         | 99,500         | 5              |

## Cut-off curve

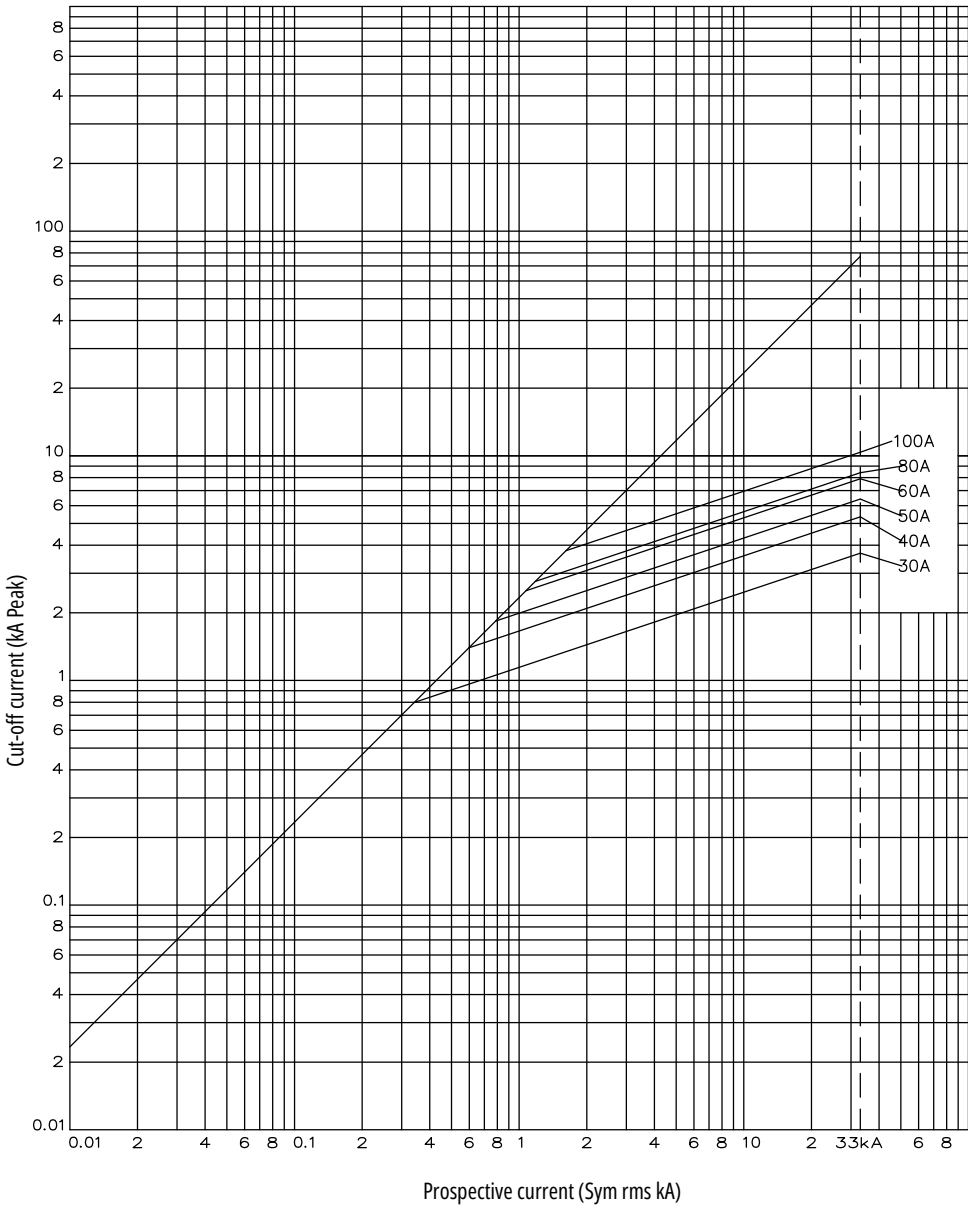
### KR85 fuse links



Cut-off curve

Cut-off curve

LR85 fuse links



## Cylindrical slotted and non slotted types fuse links

### Specifications

#### Description

Cylindrical type fuse links designed to be used with wedge type fuse carriers on BS applications. These fuse links will be used by Electrical Authorities in distribution pillars, open type substation boards, heavy duty cut-outs and underground connection boxes. Can also be fitted in pole or wall mounted outdoor service fuse links.

#### Technical data

Rated voltage: 415 V a.c.  
 Rated current: 20 to 800 A  
 Breaking capacity: 80 kA at 415 V a.c.

#### Standard/agency information

ASTA certified and tested to BS88 part 5

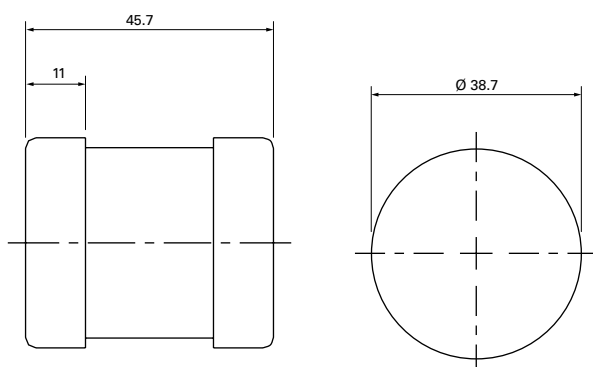
#### Product selection

##### MJ25-6, Class gG, 415 V a.c., 63 to 250 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|---------------|
| 63MJ25-6        | 415 V a.c.    | 63                   | 80 kA at 415 V a.c. | gG              | 20            |
| 80MJ25-6        | 415 V a.c.    | 80                   | 80 kA at 415 V a.c. | gG              | 20            |
| 100MJ25-6       | 415 V a.c.    | 100                  | 80 kA at 415 V a.c. | gG              | 20            |
| 125MJ25-6       | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gG              | 20            |
| 160MJ25-6       | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gG              | 20            |
| 200MJ25-6       | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gG              | 20            |
| 250MJ25-6       | 415 V a.c.    | 250                  | 80 kA at 415 V a.c. | gG              | 20            |

#### Dimensions - mm



[Data sheet: 4177](#)

## Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

### Cylindrical slotted and non slotted types fuse links

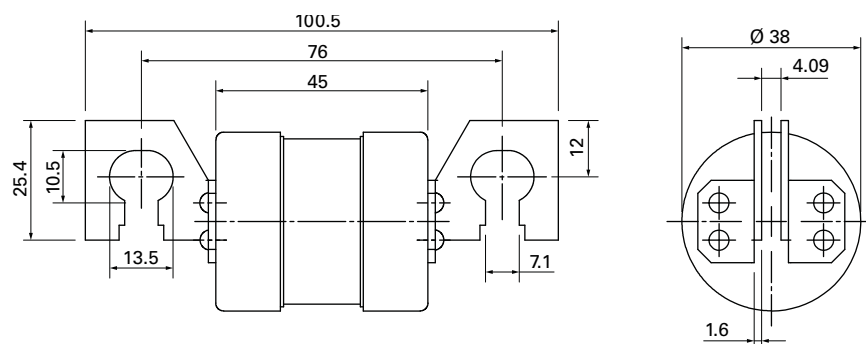
#### Product selection

##### MJ29, Class gG, 415 V a.c., 63 to 250 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|
| 63MJ29-6        | 415 V a.c.    | 63                   | 80 kA at 415 V a.c. | gG              | 76                 | 10            |
| 80MJ29-6        | 415 V a.c.    | 80                   | 80 kA at 415 V a.c. | gG              | 76                 | 10            |
| 100MJ29-6       | 415 V a.c.    | 100                  | 80 kA at 415 V a.c. | gG              | 76                 | 10            |
| 160MJ29-6       | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gG              | 76                 | 10            |
| 200MJ29-6       | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gG              | 76                 | 10            |
| 250MJ29-6       | 415 V a.c.    | 250                  | 80 kA at 415 V a.c. | gG              | 76                 | 10            |

#### Dimensions - mm



Data sheets: E5785209 and E5779001

##### MJ30, Class gU, 415 V a.c., 32 to 315 A, cylindrical slotted type



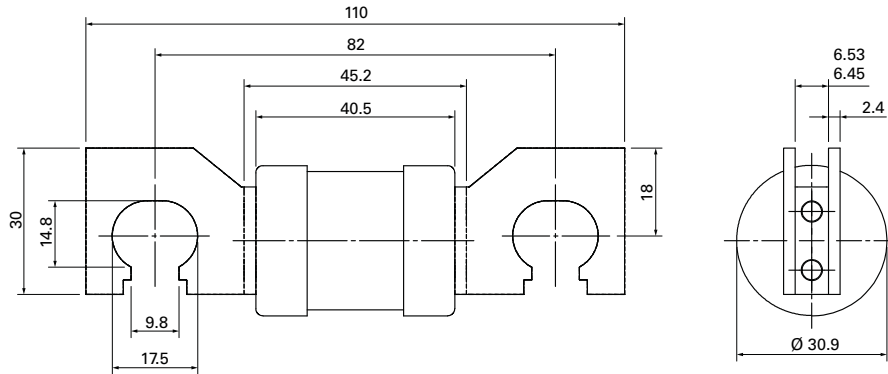
| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 20MJ30-8        | 415 V a.c.    | 20                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 25MJ30-8        | 415 V a.c.    | 25                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 32MJ30-8        | 415 V a.c.    | 32                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 40MJ30-8        | 415 V a.c.    | 40                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 50MJ30-8        | 415 V a.c.    | 50                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 63MJ30-8        | 415 V a.c.    | 63                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 80MJ30-7        | 415 V a.c.    | 80                   | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 100MJ30-7       | 415 V a.c.    | 100                  | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 125MJ30-7       | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 160MJ30-7       | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 200MJ30-7       | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gU              | 82                 | 10            | JW3                    |
| 250MJ30-7       | 415 V a.c.    | 250                  | 80 kA at 415 V a.c. | gU              | 82                 | 5             | JW3                    |
| 315MJ30-7       | 415 V a.c.    | 315                  | 80 kA at 415 V a.c. | gU              | 82                 | 5             | JW3                    |

Data sheet: 4178A

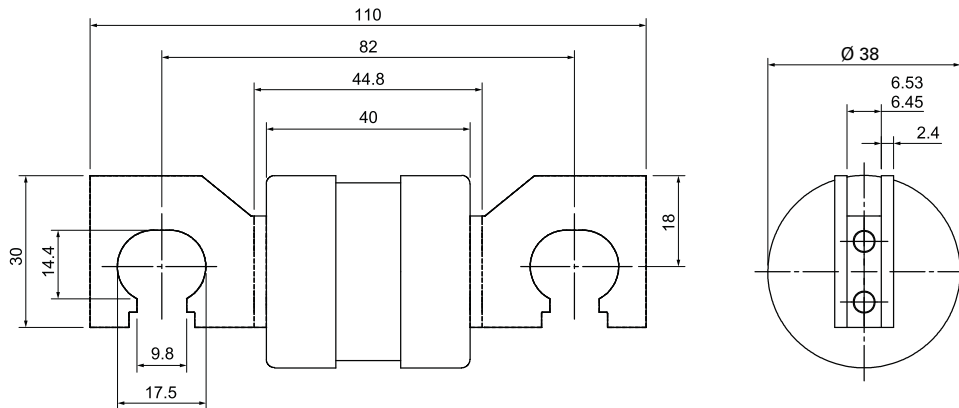
### Cylindrical slotted and non slotted types fuse links

**MJ30, Class gG, 415 V a.c., 32 to 315 A, cylindrical slotted type**

**Dimensions - mm**



**Up to 200 A**



**250 and 315 A**

[Data sheet: 4178A](#)

**MJ31, Class gG, 415 V a.c., 20 to 315 A**

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 20MJ31-8        | 415 V a.c.    | 20                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 25MJ31-8        | 415 V a.c.    | 25                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 32MJ31-8        | 415 V a.c.    | 32                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 40MJ31-8        | 415 V a.c.    | 40                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 50MJ31-8        | 415 V a.c.    | 50                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 63MJ31-8        | 415 V a.c.    | 63                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 80MJ31-7        | 415 V a.c.    | 80                   | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 100MJ31-7       | 415 V a.c.    | 100                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 125MJ31-7       | 415 V a.c.    | 125                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 160MJ31-7       | 415 V a.c.    | 160                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 200MJ31-7       | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 250MJ31-7       | 415 V a.c.    | 250                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 315MJ31-7       | 415 V a.c.    | 315                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |

[Data sheet: 4180](#)



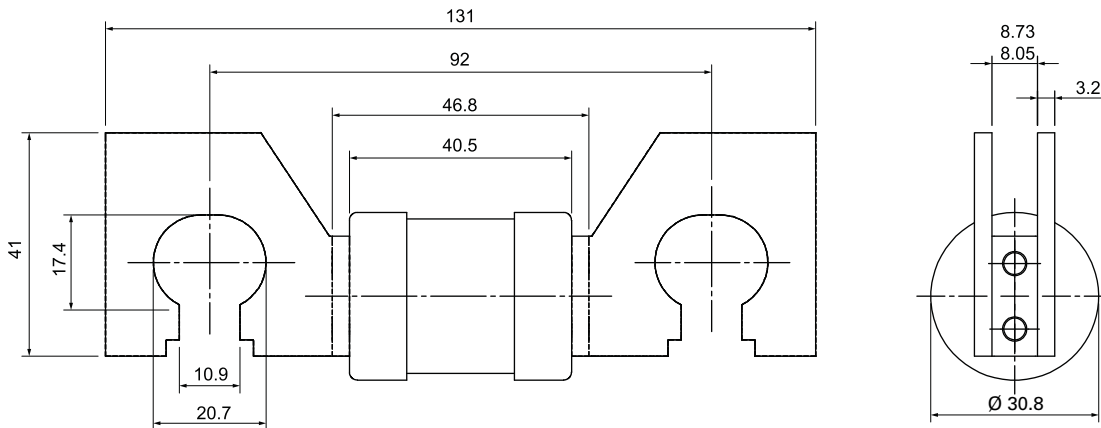
# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

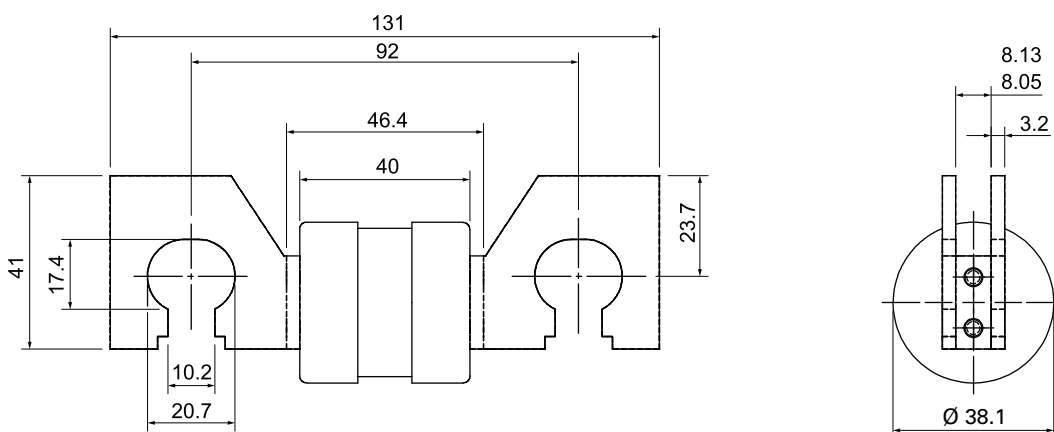
## Cylindrical slotted and non slotted types fuse links

MJ31, Class gG, 415 V a.c., 20 to 315 A

Dimensions - mm



Up to 200 A



250 and 315 A

[Data sheet: 4180](#)

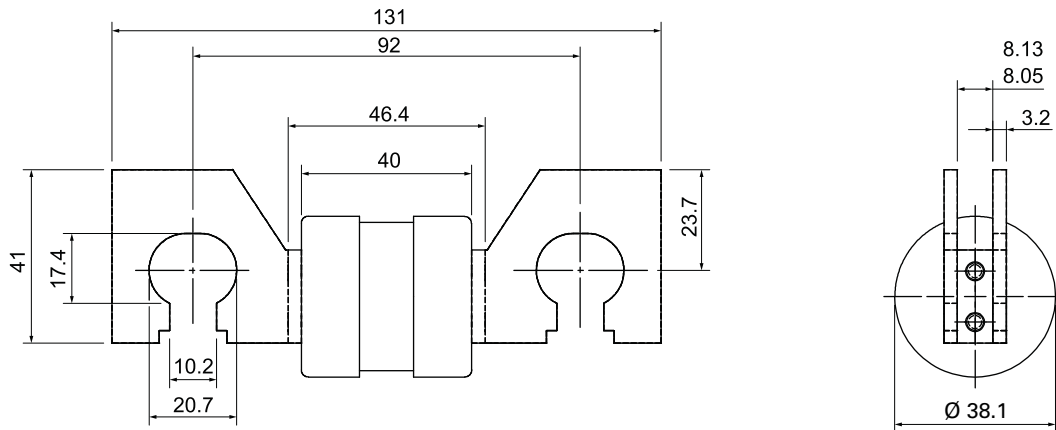
### Cylindrical slotted and non slotted types fuse links

#### PJ31, Class gG, 415 V a.c., 355 and 400 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 355PJ31-7       | 415 V a.c.    | 355                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW3                    |
| 400PJ31-7       | 415 V a.c.    | 400                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW3                    |

#### Dimensions - mm



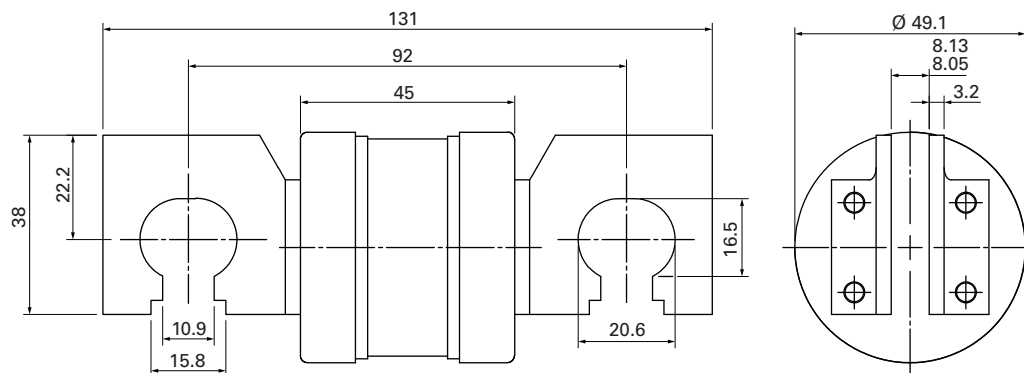
[Data sheet: 4181](#)

#### RJ31, Class gG, 415 V a.c., 450 and 500 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 450RJ31-7       | 415 V a.c.    | 450                  | 80 kA at 415 V a.c. | gU              | 92                 | 1             | JW4                    |
| 500RJ31-7       | 415 V a.c.    | 500                  | 80 kA at 415 V a.c. | gU              | 92                 | 1             | JW4                    |

#### Dimensions - mm



[Data sheet: 4182](#)

# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

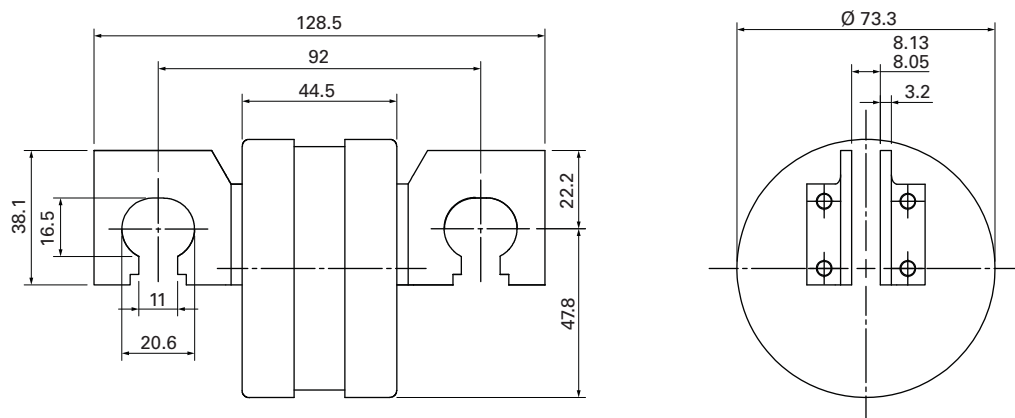
## Cylindrical slotted and non slotted types fuse links

SJ31, Class gG, 415 V a.c., 560 and 630 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 560SJ31-6       | 415 V a.c.    | 560                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |
| 630SJ31-6       | 415 V a.c.    | 630                  | 80 kA at 415 V a.c. | gU              | 92                 | 10            | JW4                    |

### Dimensions - mm



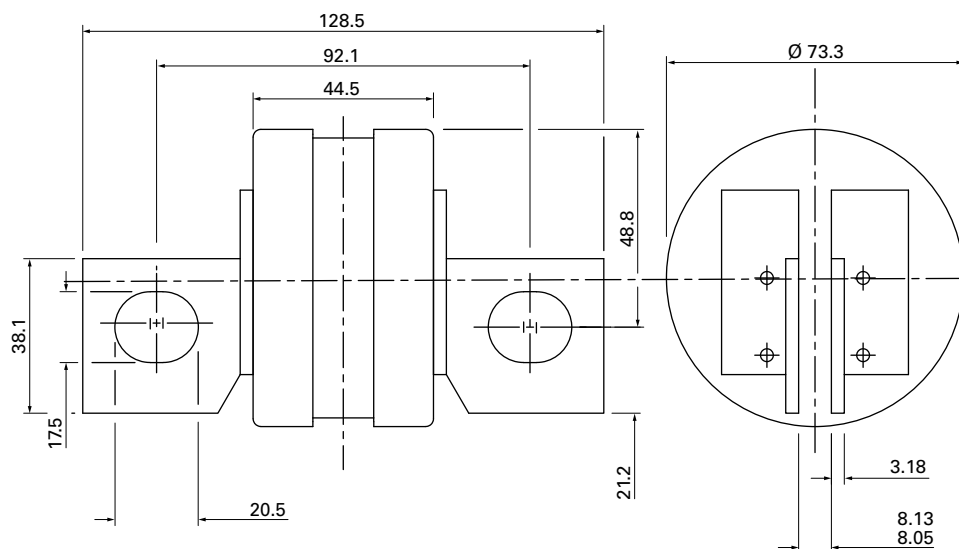
Data sheet: [4183](#)

SJ28, Class gG, 415 V a.c., 800 A



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Fixing centre (mm) | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|---------------------|-----------------|--------------------|---------------|------------------------|
| 800SJ28         | 415 V a.c.    | 800                  | 80 kA at 415 V a.c. | gU              | 92                 | 1             | JW4                    |

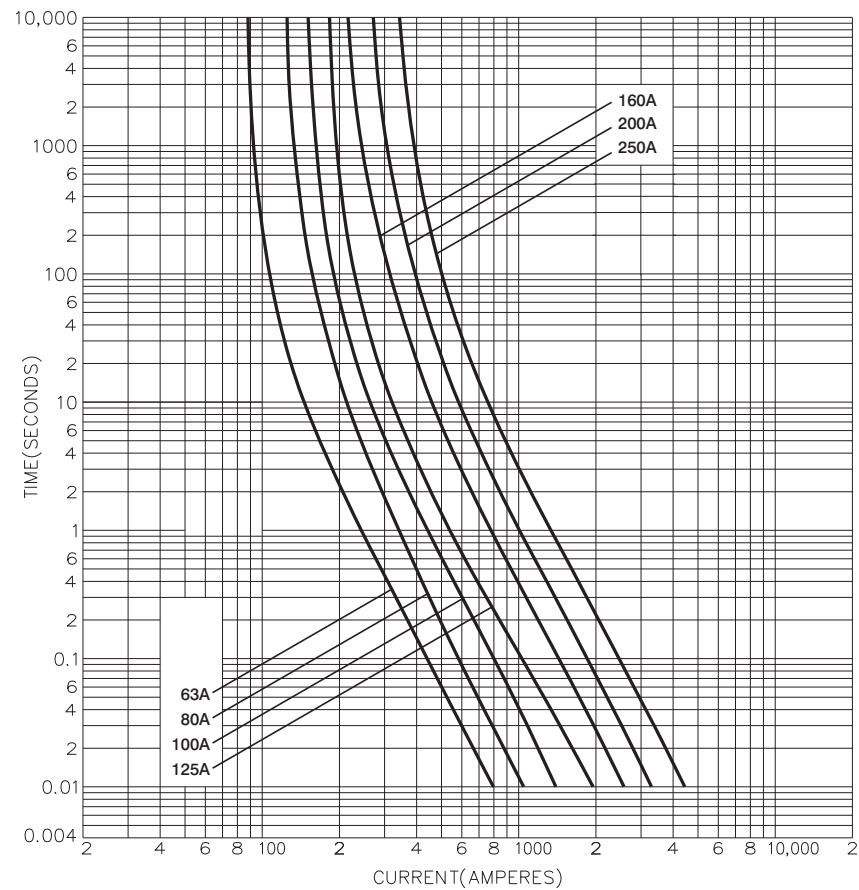
### Dimensions - mm



Data sheet: [4184](#)

Time-current curve

MJ25-6 and MJ29-6- gG Fuse links



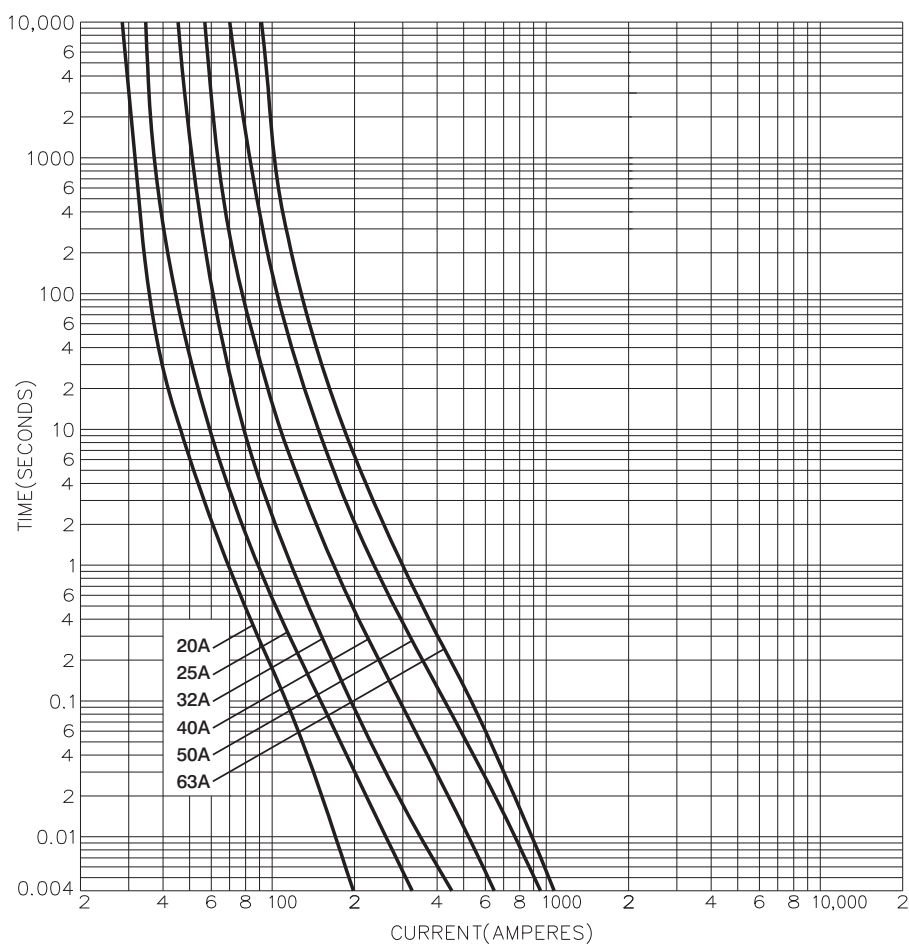
| Catalog numbers | Energy integrals I <sup>2</sup> t (A <sup>2</sup> S) |                | Watts loss<br>W |
|-----------------|------------------------------------------------------|----------------|-----------------|
|                 | Pre-arcing                                           | Total at 415 V |                 |
| 63MJ25-6        | 5600                                                 | 13,000         | 6               |
| 80MJ25-6        | 10,000                                               | 23,000         | 8               |
| 100MJ25-6       | 17,500                                               | 41,000         | 8.5             |
| 125MJ25-6       | 33,500                                               | 77,500         | 10.5            |
| 160MJ25-6       | 62,000                                               | 145,000        | 12              |
| 200MJ25-6       | 90,000                                               | 205,000        | 17              |
| 250MJ25-6       | 175,000                                              | 400,000        | 20              |

# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

## Time-current curve

### MJ30-8 - gG fuse links

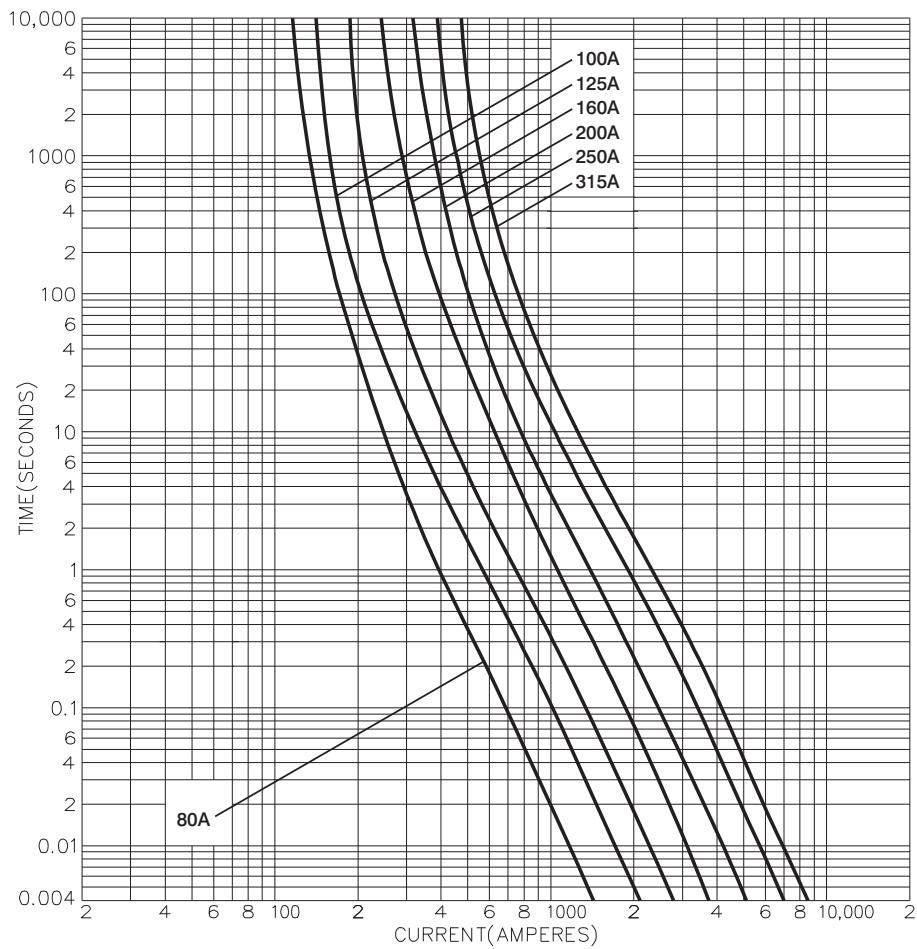


#### $I^2t$ (Amps<sup>2</sup> Seconds)

| Catalog prefix | Pre-arcing | Total at 240 V | Total at 415 V | Nom watts loss |
|----------------|------------|----------------|----------------|----------------|
| 20MJ30-8       | 120        | 230            | 360            | 2.9            |
| 25MJ30-8       | 330        | 630            | 1000           | 3              |
| 32MJ30-8       | 650        | 1250           | 2000           | 3.6            |
| 40MJ30-8       | 1300       | 2530           | 4000           | 3.7            |
| 50MJ30-8       | 3000       | 5700           | 9000           | 4.4            |
| 63MJ30-8       | 5300       | 10,000         | 16,000         | 5.2            |

Time-current curve

MJ30-7 - gG fuse links



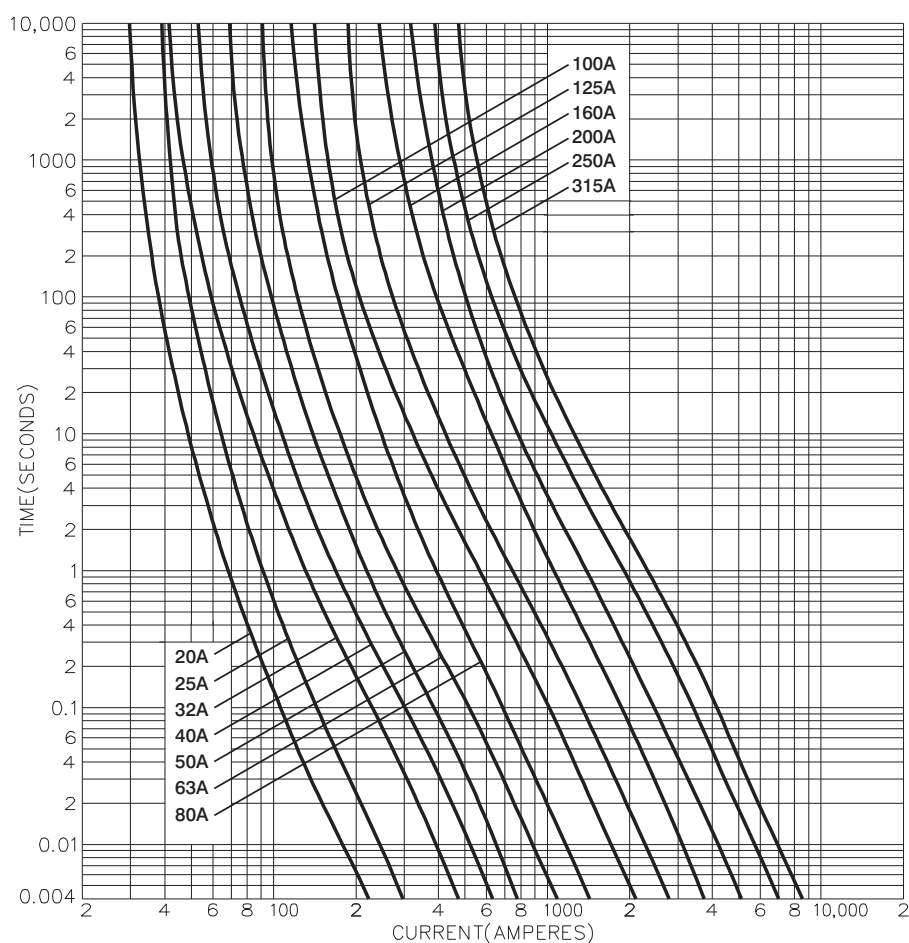
| I²t (Amps² Seconds) |            |                |                |                |
|---------------------|------------|----------------|----------------|----------------|
| Catalog prefix      | Pre-arcing | Total at 240 V | Total at 415 V | Nom watts loss |
| 80MJ30-7            | 8000       | 13,500         | 19,000         | 7.1            |
| 100MJ30-7           | 14,000     | 24,500         | 35,000         | 8.7            |
| 125MJ30-7           | 29,000     | 50,000         | 71,000         | 9.8            |
| 160MJ30-7           | 57,000     | 97,000         | 135,000        | 11.5           |
| 200MJ30-7           | 120,000    | 205,000        | 290,000        | 13             |
| 250MJ30-7           | 200,000    | 340,000        | 480,000        | 16             |
| 315MJ30-7           | 265,000    | 450,000        | 635,000        | 26             |

# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

## Time-current curve

### MJ31-8 - gG fuse links

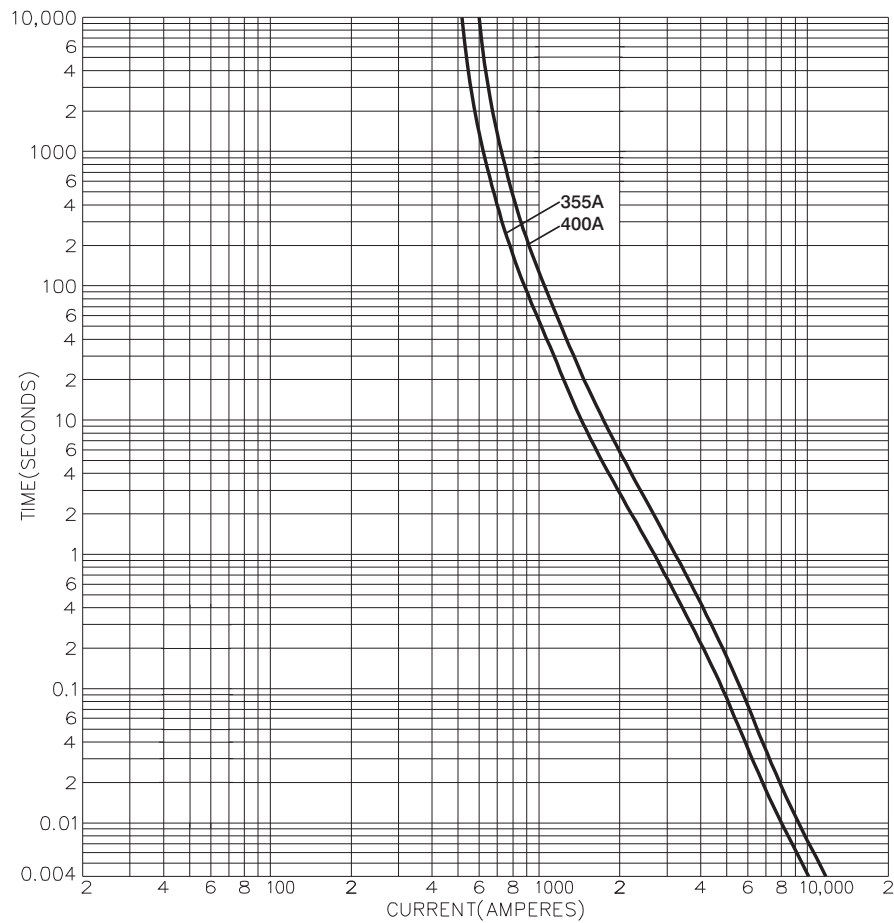


**I<sup>2</sup>t (Amps<sup>2</sup> Seconds)**

| Catalog prefix | Pre-arcing | Total at 240 V | Total at 415 V | Nom watts loss |
|----------------|------------|----------------|----------------|----------------|
| 20MJ31-8       | 162        | 310            | 490            | 2.5            |
| 25MJ31-8       | 320        | 610            | 970            | 2.8            |
| 32MJ31-8       | 690        | 1300           | 2100           | 3.4            |
| 40MJ31-8       | 1400       | 2650           | 4200           | 3.8            |
| 50MJ31-8       | 2750       | 5200           | 8200           | 4.3            |
| 63MJ31-8       | 5600       | 10,500         | 17,000         | 5              |
| 80MJ31-7       | 8000       | 13,500         | 19,000         | 7.1            |
| 100MJ31-7      | 14,000     | 24,500         | 35,000         | 8.7            |
| 125MJ31-7      | 29,000     | 50,000         | 71,000         | 9.8            |
| 160MJ31-7      | 57,000     | 97,000         | 135,000        | 11.5           |
| 200MJ31-7      | 120,000    | 205,000        | 290,000        | 13             |
| 250MJ31-7      | 200,000    | 340,000        | 480,000        | 16             |
| 315MJ31-7      | 265,000    | 450,000        | 635,000        | 26             |

Time-current curve

PJ31 - gG fuse links



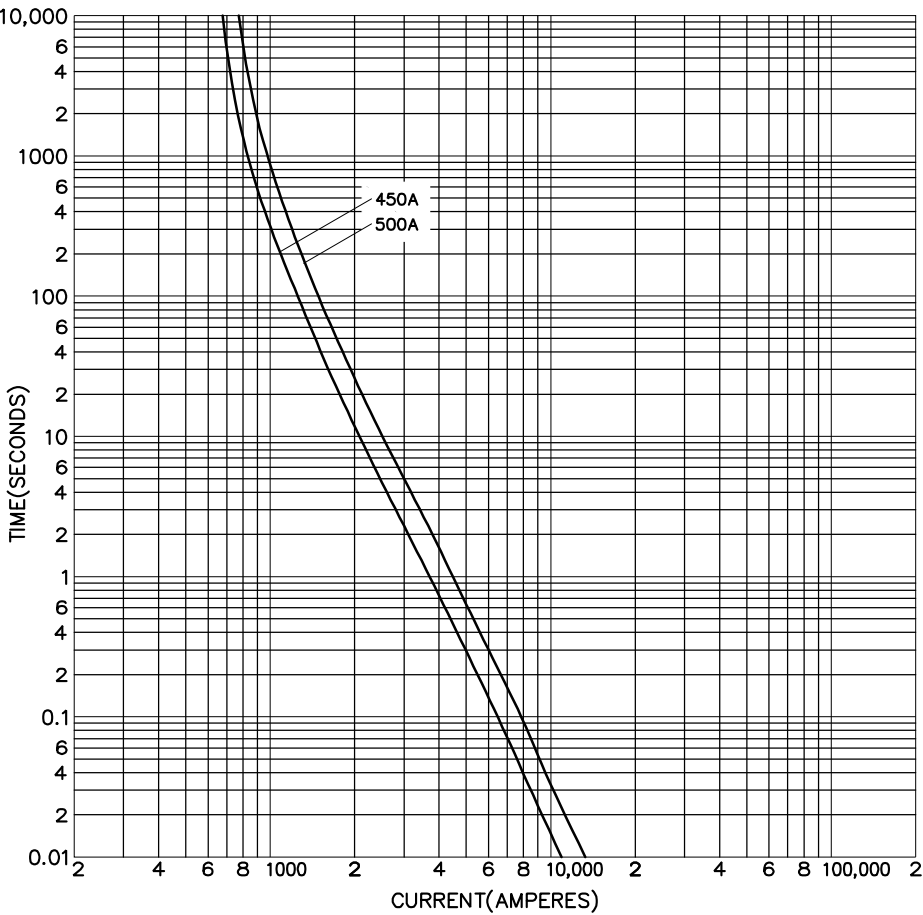
| Catalog numbers | Energy integrals I²t (A²S) |                |                | Watts loss |
|-----------------|----------------------------|----------------|----------------|------------|
|                 | Pre-arcing                 | Total at 240 V | Total at 415 V | W          |
| 355PJ31-7       | 360,000                    | 610,000        | 865,000        | 26         |
| 400PJ31-7       | 475,000                    | 810,000        | 1,150,000      | 31         |

# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

## Time-current curve

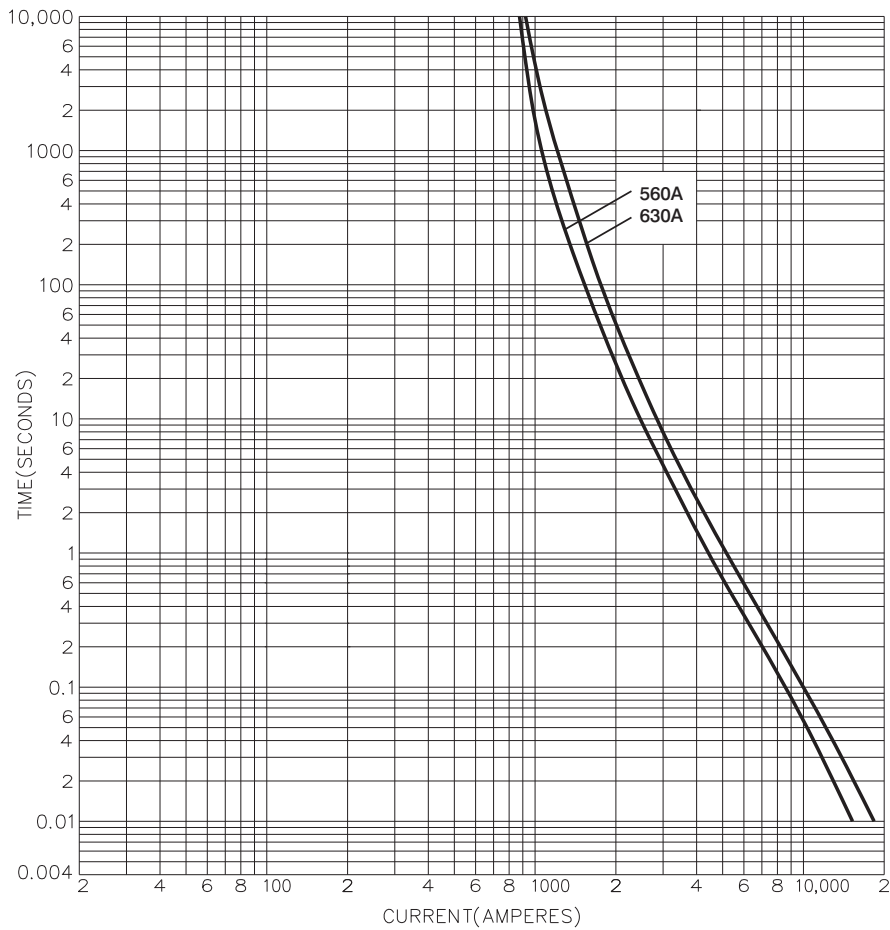
RJ31 - gG fuse links



| Catalog numbers | Energy integrals I²t (A²S) |                |                | Watts loss |
|-----------------|----------------------------|----------------|----------------|------------|
|                 | Pre-arcing                 | Total at 240 V | Total at 415 V | W          |
| 450RJ           | 740,000                    | 1,260,000      | 1,860,000      | 31.3       |
| 500RJ           | 1,100,000                  | 1,810,000      | 2,700,000      | 33         |

Time-current curve

SJ31 - gG fuse links



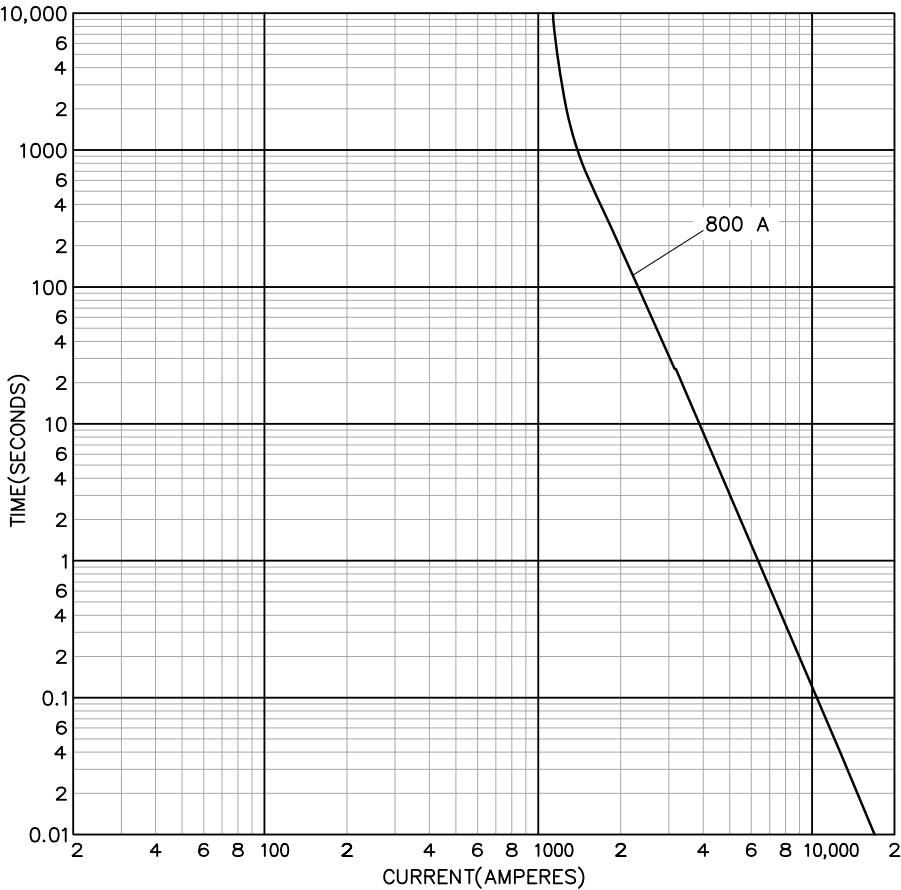
| Catalog numbers | Energy integrals I²t (A²S) |                | Watts loss |
|-----------------|----------------------------|----------------|------------|
|                 | Pre-arcing                 | Total at 415 V | W          |
| 560SJ31-6       | 2,300,000                  | 5,300,000      | 38         |
| 630SJ31-6       | 3,250,000                  | 7,450,000      | 41         |

# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

## Time-current curve

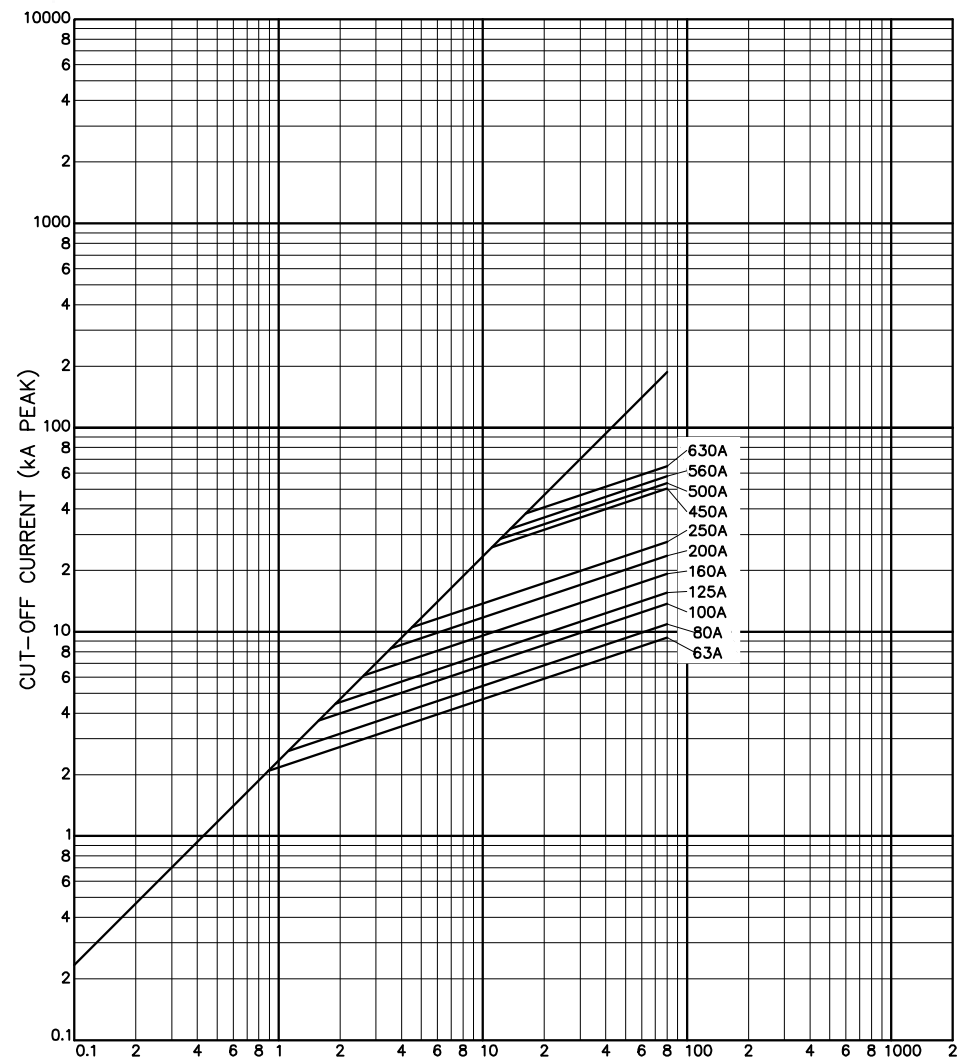
SJ28 - gG fuse links



| Catalog numbers | Energy integrals I²t (A²S) |                |                | Watts loss |
|-----------------|----------------------------|----------------|----------------|------------|
|                 | Pre-arcing                 | Total at 240 V | Total at 415 V | W          |
| 800SJ28         | 1,450,000                  | 2,800,000      | 5,000,000      | 52         |

Cut off curve

MJ25, MJ29 and SJ-31

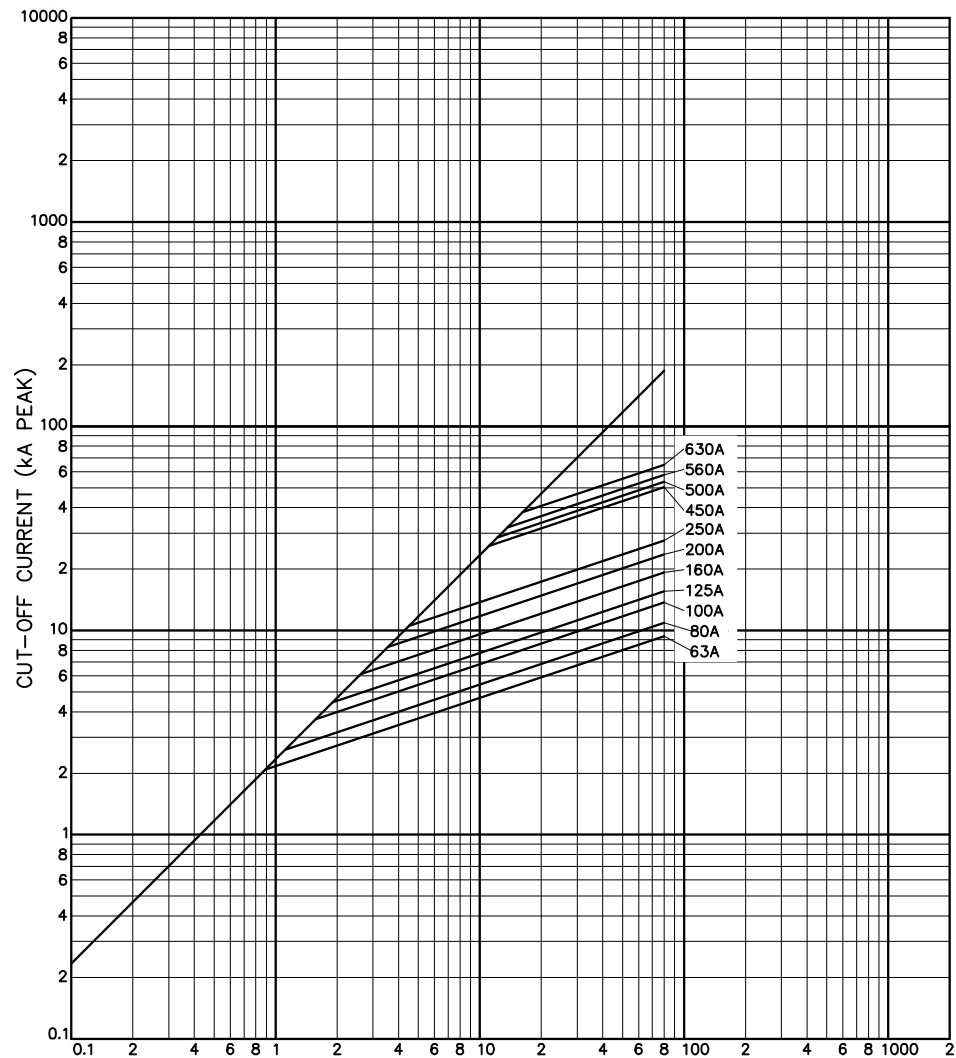


# Utility applications to BS88 - J Type fuse links part 5

Cylindrical slotted and non slotted types fuse links

## Cut off curve

MJ30, MJ31, PJ and RJ



### Arc limiter non slotted types limiters fuse links

#### Specifications

##### Description

Arc limiter non slotted type fuse links are specifically designed to be used for safe working on live systems. Their aR characteristics offers ultra high speed protection and maximum arc flash reduction. They are not suitable for low overload fault protection.

#### Technical data

Rated voltage: 415 V a.c.  
Rated current: 200 and 315 A  
Breaking capacity: 80 kA at 415 V a.c.

#### Standard/agency information

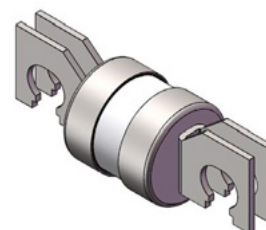
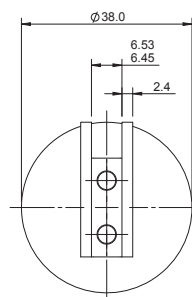
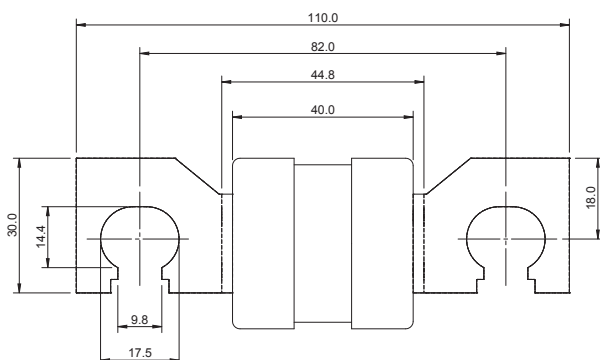
Dimensions in accordance with BS88-2 system I  
Performance in accordance with BS88-4

#### Product selection

##### 82AL200, Class aR, 415 V a.c., 200 and 315 A

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|---------------|
| 82AL200         | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | aR              | 5             |
| 82AL315         | 415 V a.c.    | 315                  | 80 kA at 415 V a.c. | aR              | 5             |

##### Dimensions - mm

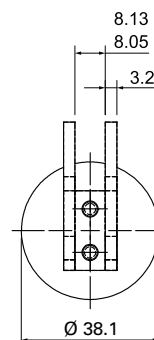
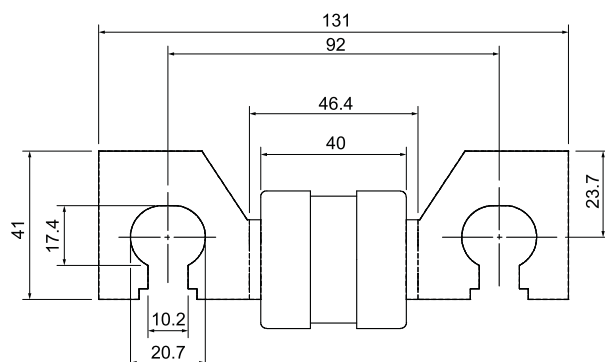


[Data sheet: 4178A](#)

##### 82AL200 and 92AL200, Class aR, 415 V a.c., 200 and 315 A

| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity   | Operating class | Pack quantity |
|-----------------|---------------|----------------------|---------------------|-----------------|---------------|
| 92AL200         | 415 V a.c.    | 200                  | 80 kA at 415 V a.c. | aR              | 5             |
| 92AL315         | 415 V a.c.    | 315                  | 80 kA at 415 V a.c. | aR              | 5             |

##### Dimensions - mm



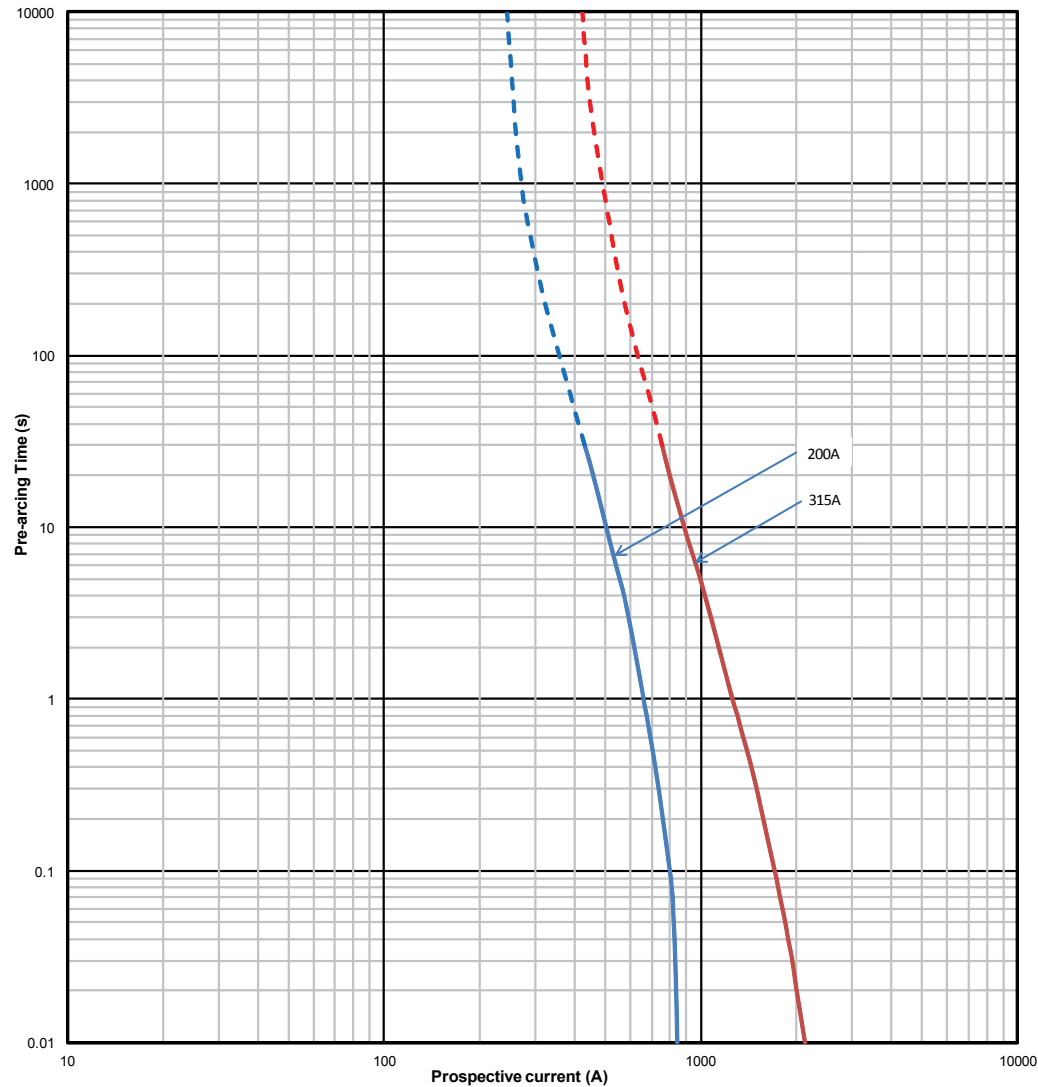
[Data sheet: 4180](#)

# Utility applications to BS88 - J Type fuse links part 5

Time-current curve

## Time-current curve

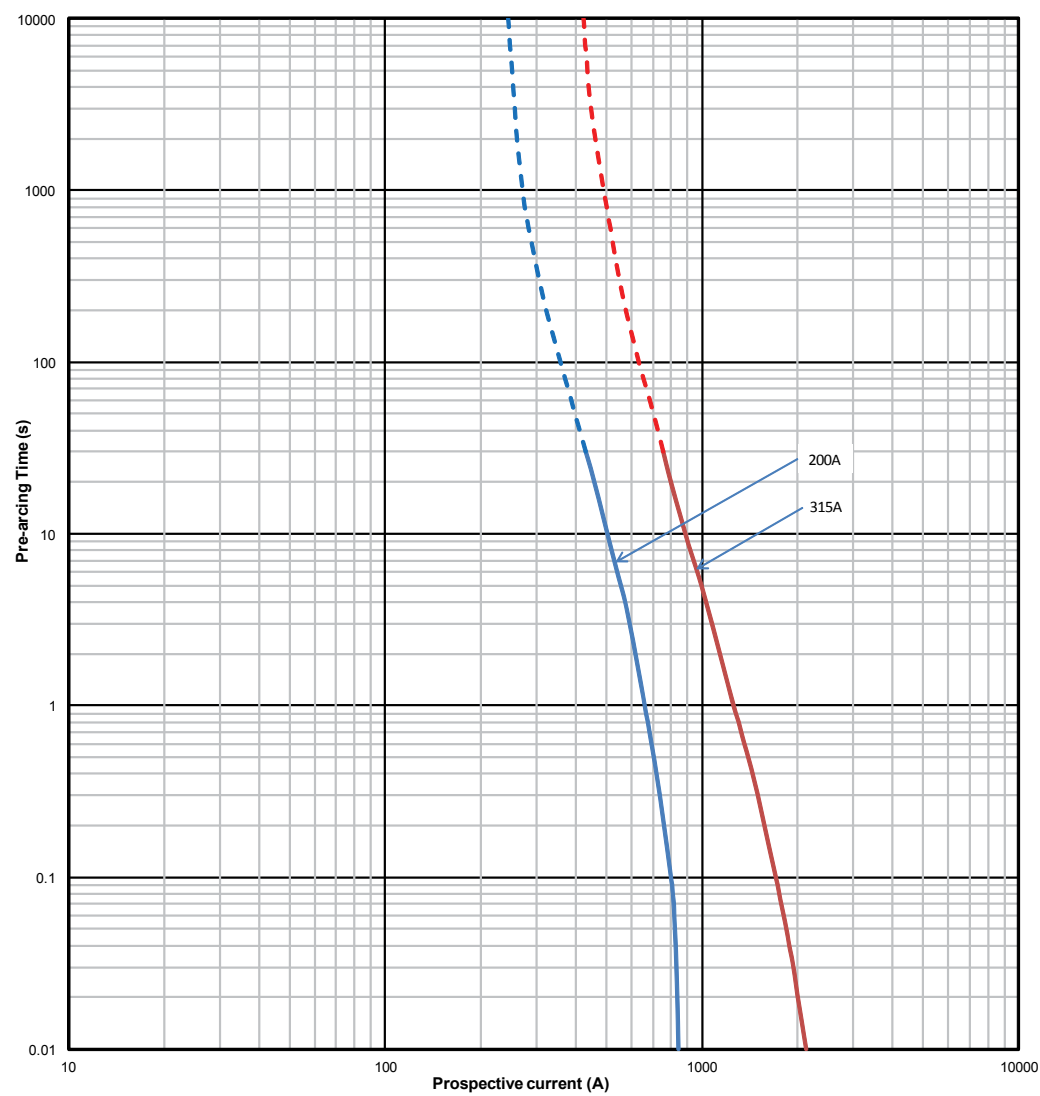
### 82AL fuse links



| Catalog numbers | Energy integrals I <sup>2</sup> t (A <sup>2</sup> S) |                |                | Watts loss<br>W |
|-----------------|------------------------------------------------------|----------------|----------------|-----------------|
|                 | Pre-arcing                                           | Total at 240 V | Total at 415 V |                 |
| 82AL200         | 9800                                                 | 29,000         | 63,000         | 48              |
| 82AL315         | 14,100                                               | 41,500         | 91,000         | 54              |

Time-current curve

92AL fuse links



| Catalog numbers | Energy integrals I²t (A²S) |                |                | Watts loss<br>W |
|-----------------|----------------------------|----------------|----------------|-----------------|
|                 | Pre-arcing                 | Total at 240 V | Total at 415 V |                 |
| 92AL200         | 9800                       | 29,000         | 63,000         | 48              |
| 92AL315         | 14,100                     | 41,500         | 91,000         | 54              |

# Cylindrical industrial fuse links

Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

## Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

### Specifications

#### Description

Cylindrical fuse links for industrial applications, class gG.  
Available with indicator or striker.

#### Technical data

Rated voltage: up to 690 V a.c., see tables for details  
Rated current: 0.5 to 125 A, see tables for details  
Breaking capacity: up to 120 kA, see tables for details

#### Standard/agency information

IEC 60269

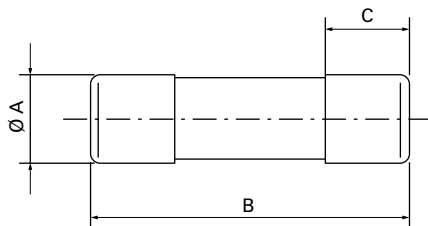
#### Product selection

##### 10 x 38 mm, Class gG, 500 and 400 V a.c., 0.5 to 32 A, without indicator



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C10G0-5         | 500 V a.c.    | 0.5                  | 120 kA at 500 V a.c. | gG              | 10            | CHM range              |
| C10G1           | 500 V a.c.    | 1                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G2           | 500 V a.c.    | 2                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G4           | 500 V a.c.    | 4                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G6           | 500 V a.c.    | 6                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G8           | 500 V a.c.    | 8                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G10          | 500 V a.c.    | 10                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G12          | 500 V a.c.    | 12                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G16          | 500 V a.c.    | 16                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G20          | 500 V a.c.    | 20                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G25          | 500 V a.c.    | 25                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C10G32          | 400 V a.c.    | 32                   | 120 kA at 400 V a.c. | gG              | 10            |                        |

#### C10 Dimensions - mm



| Catalog numbers | A  | B  | C  |
|-----------------|----|----|----|
| C10G            | 10 | 38 | 10 |

Data sheet: [720115](#)

## Cylindrical industrial fuse links

Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

### Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

14 x 51 mm, Class gG, 400, 500 and 690 V a.c., 1 to 50 A, without indicator



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C14G1           | 690 V a.c.    | 1                    | 80 kA at 690 V a.c.  | gG              | 10            | CH14 range             |
| C14G2           | 690 V a.c.    | 2                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G4           | 690 V a.c.    | 4                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G6           | 690 V a.c.    | 6                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G8           | 690 V a.c.    | 8                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G10          | 690 V a.c.    | 10                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G12          | 690 V a.c.    | 12                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G16          | 690 V a.c.    | 16                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G20          | 690 V a.c.    | 20                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G25          | 690 V a.c.    | 25                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C14G32          | 500 V a.c.    | 32                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G40          | 500 V a.c.    | 40                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G50          | 400 V a.c.    | 50                   | 120 kA at 400 V a.c. | gG              | 10            |                        |

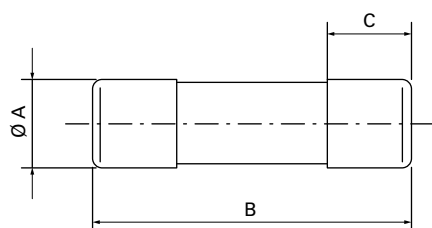
14 x 51 mm, Class gG, 500 and 400 V a.c., 2 to 50 A, with striker



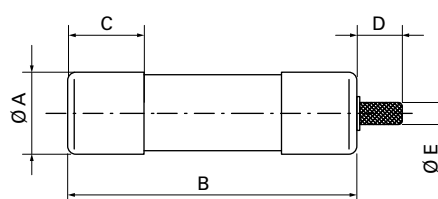
| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C14G2S          | 500 V a.c.    | 2                    | 120 kA at 500 V a.c. | gG              | 10            | CH14 range             |
| C14G4S          | 500 V a.c.    | 4                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G6S          | 500 V a.c.    | 6                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G8S          | 500 V a.c.    | 8                    | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G10S         | 500 V a.c.    | 10                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G12S         | 500 V a.c.    | 12                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G16S         | 500 V a.c.    | 16                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G20S         | 500 V a.c.    | 20                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G25S         | 500 V a.c.    | 25                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G32S         | 500 V a.c.    | 32                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G40S         | 500 V a.c.    | 40                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C14G50S         | 400 V a.c.    | 50                   | 120 kA at 400 V a.c. | gG              | 10            |                        |

[Data sheet: 720115](#)

### C14 Dimensions - mm



| Catalog numbers | A    | B  | C  |
|-----------------|------|----|----|
| C14G            | 14.3 | 51 | 13 |



| Catalog numbers   | A    | B  | C  | D | E |
|-------------------|------|----|----|---|---|
| C14G with striker | 14.3 | 51 | 13 | 8 | 4 |

# Cylindrical industrial fuse links

Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

## Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

22 x 58 mm, Class gG, 400, 500 and 690 V a.c., 2 to 125 A, without indicator



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C22G2           | 690 V a.c.    | 2                    | 80 kA at 690 V a.c.  | gG              | 10            | CH22 range             |
| C22G4           | 690 V a.c.    | 4                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G6           | 690 V a.c.    | 6                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G8           | 690 V a.c.    | 8                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G10          | 690 V a.c.    | 10                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G12          | 690 V a.c.    | 12                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G16          | 690 V a.c.    | 16                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G20          | 690 V a.c.    | 20                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G25          | 690 V a.c.    | 25                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G32          | 690 V a.c.    | 32                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G40          | 690 V a.c.    | 40                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G50          | 690 V a.c.    | 50                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G63          | 690 V a.c.    | 63                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G80          | 500 V a.c.    | 80                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C22G100         | 500 V a.c.    | 100                  | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C22G125         | 400 V a.c.    | 125                  | 120 kA at 400 V a.c. | gG              | 10            |                        |

Data sheet: [720115](#)

22 x 58 mm, Class gG, 400, 500 and 690 V a.c., 4 to 125 A, with striker

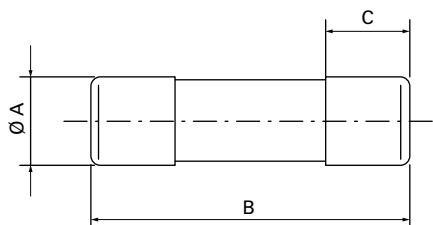


| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C22G4S          | 690 V a.c.    | 4                    | 80 kA at 690 V a.c.  | gG              | 10            | CH22 range             |
| C22G6S          | 690 V a.c.    | 6                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G8S          | 690 V a.c.    | 8                    | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G10S         | 690 V a.c.    | 10                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G12S         | 690 V a.c.    | 12                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G16S         | 690 V a.c.    | 16                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G20S         | 690 V a.c.    | 20                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G25S         | 690 V a.c.    | 25                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G32S         | 690 V a.c.    | 32                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G40S         | 690 V a.c.    | 40                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G50S         | 690 V a.c.    | 50                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G63S         | 690 V a.c.    | 63                   | 80 kA at 690 V a.c.  | gG              | 10            |                        |
| C22G80S         | 500 V a.c.    | 80                   | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C22G100S        | 500 V a.c.    | 100                  | 120 kA at 500 V a.c. | gG              | 10            |                        |
| C22G125S        | 400 V a.c.    | 125                  | 120 kA at 400 V a.c. | gG              | 10            |                        |

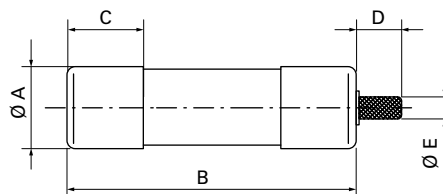
Data sheet: [720115](#)

## Class gG, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

### C22 Dimensions - mm



| Catalog numbers | A  | B  | C  |
|-----------------|----|----|----|
| C22G            | 22 | 58 | 16 |



| Catalog numbers   | A  | B  | C  | D | E |
|-------------------|----|----|----|---|---|
| C22G with striker | 22 | 58 | 16 | 8 | 4 |

# Cylindrical industrial fuse links

Class aM, 10 x 38, 14 x 51 and 22 x 58 mm fuse links

## Class aM, 10 x 38, 14 x 51 and 22 x 58 mm fuse links

### Specifications

#### Description

Cylindrical fuse links for industrial applications, class aM (Motor protection). Available with indicator.

#### Technical data

Rated voltage: up to 690 V a.c., see tables for details

Rated current: 1 to 125 A, see tables for details

Breaking capacity: up to 120 kA., see tables for details

#### Standard/agency information

IEC 60269

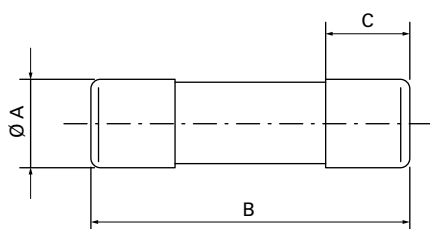
#### Product selection

##### 10 x 38 mm, Class aM, 500 and 400 V a.c., 0.25 to 25 A, without indicator



| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C10M0-25        | 500 V a.c.    | 0.25                 | 120 kA at 500 V a.c. | aM              | 10            | CHM range              |
| C10M0-5         | 500 V a.c.    | 0.5                  | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M1           | 500 V a.c.    | 1                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M2           | 500 V a.c.    | 2                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M4           | 500 V a.c.    | 4                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M6           | 500 V a.c.    | 6                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M8           | 500 V a.c.    | 8                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M10          | 500 V a.c.    | 10                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M12          | 500 V a.c.    | 12                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M16          | 500 V a.c.    | 16                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C10M20          | 400 V a.c.    | 20                   | 120 kA at 400 V a.c. | aM              | 10            |                        |
| C10M25          | 400 V a.c.    | 25                   | 120 kA at 400 V a.c. | aM              | 10            |                        |

#### Dimensions - mm



| Catalog numbers | A  | B  | C  |
|-----------------|----|----|----|
| C10M            | 10 | 38 | 10 |

## Class aM, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

### 14 x 51 mm, Class aM, 400, 500 and 690 V a.c., 0.25 to 50 A, without indicator



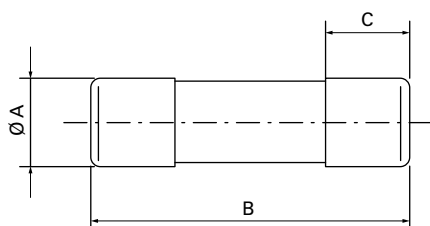
| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C14M0-25        | 690 V a.c.    | 0.25                 | 120 kA at 690 V a.c. | aM              | 10            | CH14 range             |
| C14M0.5         | 690 V a.c.    | 0.5                  | 120 kA at 690 V a.c. | aM              | 10            |                        |
| C14M1           | 690 V a.c.    | 1                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M2           | 690 V a.c.    | 2                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M4           | 690 V a.c.    | 4                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M6           | 690 V a.c.    | 6                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M8           | 690 V a.c.    | 8                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M10          | 690 V a.c.    | 10                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M12          | 690 V a.c.    | 12                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M16          | 690 V a.c.    | 16                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M20          | 690 V a.c.    | 20                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M25          | 690 V a.c.    | 25                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C14M32          | 500 V a.c.    | 32                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M40          | 500 V a.c.    | 40                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M50          | 400 V a.c.    | 50                   | 120 kA at 400 V a.c. | aM              | 10            |                        |

### 14 x 51 mm, Class aM, 400 and 500 V a.c., 2 to 50 A, with striker

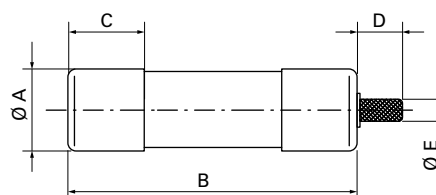


| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C14M2S          | 500 V a.c.    | 2                    | 120 kA at 500 V a.c. | aM              | 10            | CH14 range             |
| C14M4S          | 500 V a.c.    | 4                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M6S          | 500 V a.c.    | 6                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M8S          | 500 V a.c.    | 8                    | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M10S         | 500 V a.c.    | 10                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M12S         | 500 V a.c.    | 12                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M16S         | 500 V a.c.    | 16                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M20S         | 500 V a.c.    | 20                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M25S         | 500 V a.c.    | 25                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M32S         | 500 V a.c.    | 32                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M40S         | 500 V a.c.    | 40                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C14M50S         | 400 V a.c.    | 50                   | 120 kA at 400 V a.c. | aM              | 10            |                        |

### Dimensions - mm



| Catalog numbers | A    | B  | C  |
|-----------------|------|----|----|
| C14M            | 14.3 | 51 | 13 |



| Catalog numbers   | A    | B  | C  | D | E |
|-------------------|------|----|----|---|---|
| C14M with striker | 14.3 | 51 | 13 | 8 | 4 |

Data sheet: [720115](#)

# Cylindrical industrial fuse links

Class aM, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

## Class aM, sizes 10 x 38, 14 x 51 and 22 x 58 mm fuse links

### 22 x 58 mm, Class aM, 400, 500 and 690 V a.c., 2 to 125 A, without indicator



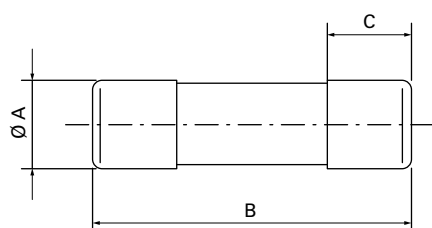
| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C22M2           | 690 V a.c.    | 2                    | 80 kA at 690 V a.c.  | aM              | 10            | CH22 range             |
| C22M4           | 690 V a.c.    | 4                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M6           | 690 V a.c.    | 6                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M8           | 690 V a.c.    | 8                    | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M10          | 690 V a.c.    | 10                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M12          | 690 V a.c.    | 12                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M16          | 690 V a.c.    | 16                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M20          | 690 V a.c.    | 20                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M25          | 690 V a.c.    | 25                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M32          | 690 V a.c.    | 32                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M40          | 690 V a.c.    | 40                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M50          | 690 V a.c.    | 50                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M63          | 690 V a.c.    | 63                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M80          | 500 V a.c.    | 80                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C22M100         | 500 V a.c.    | 100                  | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C22M125         | 400 V a.c.    | 125                  | 120 kA at 400 V a.c. | aM              | 10            |                        |

### 22 x 58 mm, Class aM, 400, 500 and 690 V a.c., 12 to 125 A, with striker

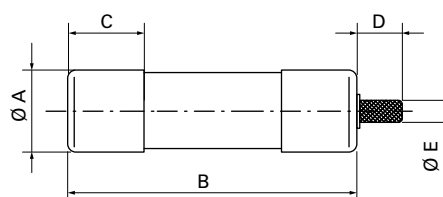


| Catalog numbers | Rated voltage | Rated current (Amps) | Breaking capacity    | Operating class | Pack quantity | Compatible fuse holder |
|-----------------|---------------|----------------------|----------------------|-----------------|---------------|------------------------|
| C22M12S         | 690 V a.c.    | 12                   | 80 kA at 690 V a.c.  | aM              | 10            | CH22 range             |
| C22M16S         | 690 V a.c.    | 16                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M20S         | 690 V a.c.    | 20                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M25S         | 690 V a.c.    | 25                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M32S         | 690 V a.c.    | 32                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M40S         | 690 V a.c.    | 40                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M50S         | 690 V a.c.    | 50                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M63S         | 690 V a.c.    | 63                   | 80 kA at 690 V a.c.  | aM              | 10            |                        |
| C22M80S         | 500 V a.c.    | 80                   | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C22M100S        | 500 V a.c.    | 100                  | 120 kA at 500 V a.c. | aM              | 10            |                        |
| C22M125S        | 400 V a.c.    | 125                  | 120 kA at 400 V a.c. | aM              | 10            |                        |

### Dimensions - mm



| Catalog numbers | A  | B  | C  |
|-----------------|----|----|----|
| C22M            | 22 | 58 | 16 |

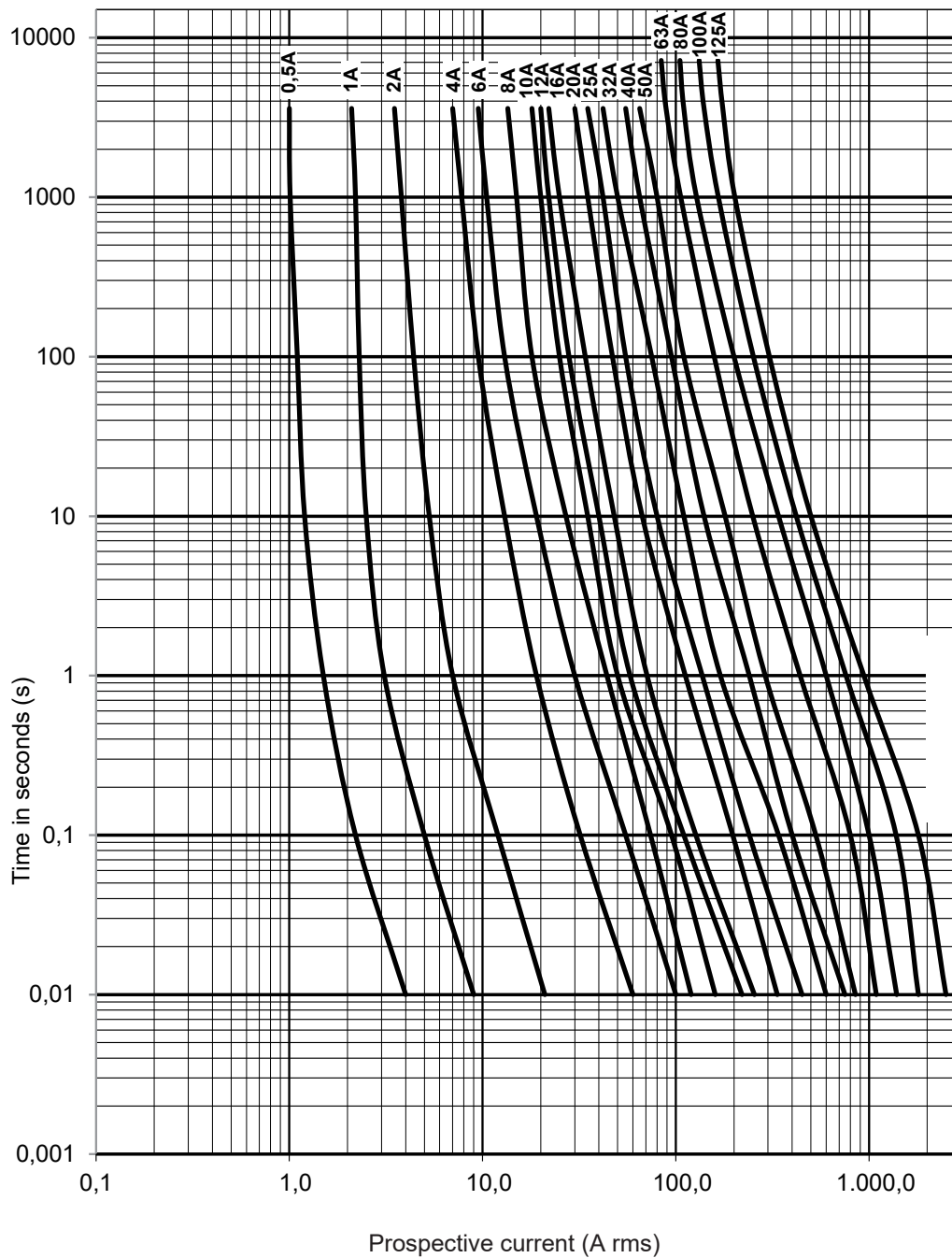


| Catalog numbers   | A  | B  | C  | D | E |
|-------------------|----|----|----|---|---|
| C22M with striker | 22 | 58 | 16 | 8 | 4 |

Data sheet: [720115](#)

## Time-current curves

## Class gG Fuse links

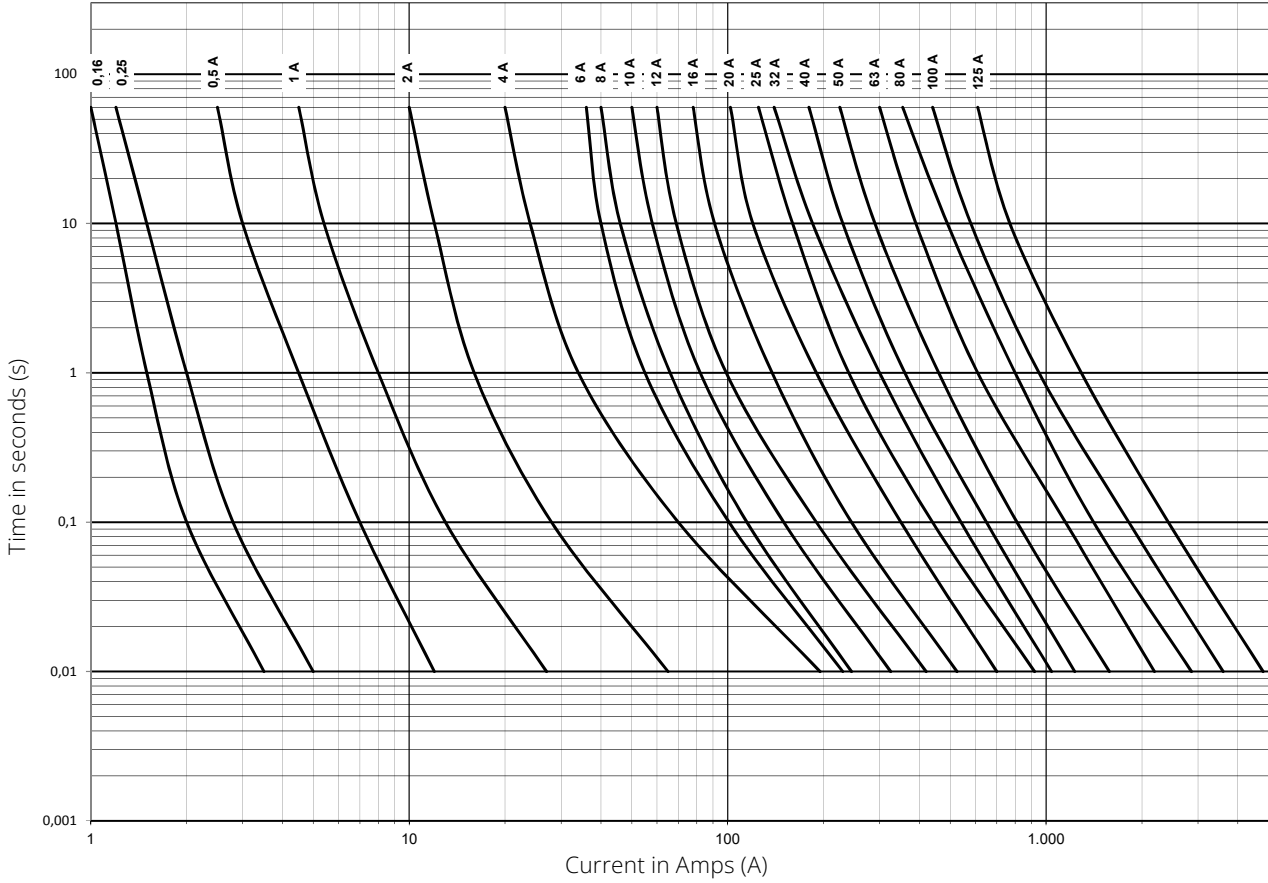


# Cylindrical industrial fuse links

Time-current curve

## Time-current curve

### Class aM fuse links



## 10 x38 mm CH Modular fuse holders

### Specifications

#### Description

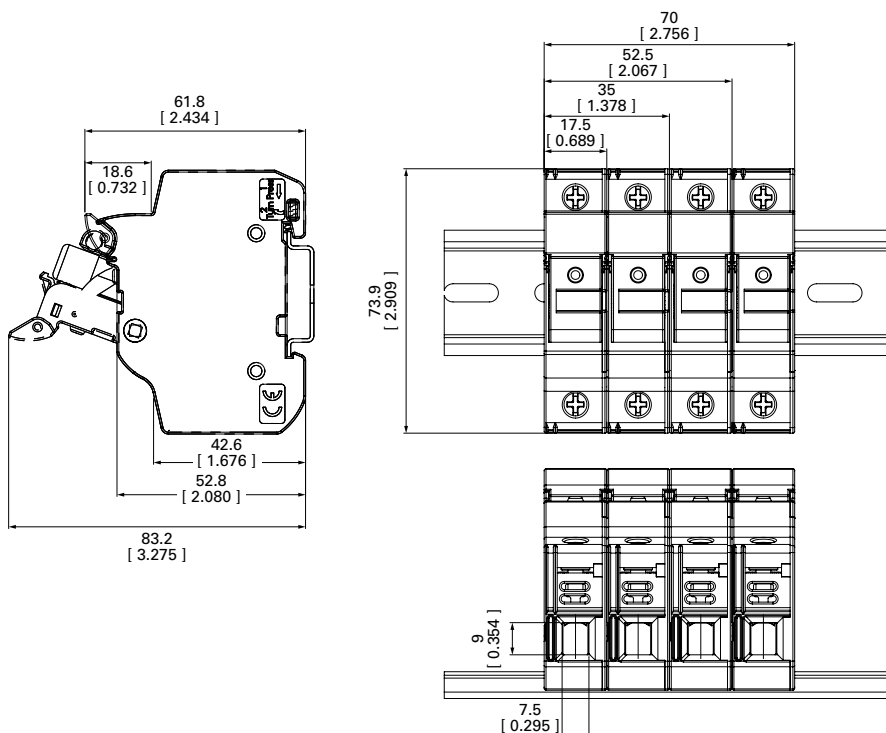
Modular fuse holders specifically designed for the protection of general industrial and commercial applications such as power distribution, lighting, cable and motor protection.

#### Product selection

10 x 38 mm, CHM

| Catalog number                |                | Rated voltage & rated current | Agency markings                              | Number of poles    | Terminal rating                                                                   | Rated breaking capacity                                       | Compatible fuse links                                                                              |
|-------------------------------|----------------|-------------------------------|----------------------------------------------|--------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Series & size                 | With indicator |                               |                                              |                    |                                                                                   |                                                               |                                                                                                    |
| CHM<br>10x38<br>and<br>Midget | CHM1DIU        | CHM1DU                        | IEC 60269-2<br>UR; CSA; CCC                  | 1                  | IEC: 1 to 25mm <sup>2</sup> 70°C<br>PVC/Copper Cable                              | IEC 120 kA rms sym<br>UL 200 kA rms sym<br>CCC 100 kA rms sym | IEC: C10G and<br>C10M Series<br><br>UL: FNQ, KLM,<br>FNM, KTK, BAF,<br>FWA, PVM, AGU,<br>BAN, FWC. |
|                               | CHM2DIU        | CHM2DU                        |                                              | 2                  |                                                                                   |                                                               |                                                                                                    |
|                               | CHM3DIU        | CHM3DU                        |                                              | 3                  |                                                                                   |                                                               |                                                                                                    |
|                               | CHM4DIU        | CHM4DU                        |                                              | 4                  |                                                                                   |                                                               |                                                                                                    |
|                               | CHM1DNIU       | CHM1DNU                       | IEC 60269-2                                  | 1-pole + 1 neutral | Solid, Stranded, Fine<br>Stranded, Spade Lug,<br>Comb Bus Bar; Single<br>and Dual |                                                               |                                                                                                    |
|                               | CHM3DNIU       | CHM3DNU                       |                                              | 3-pole + 1 neutral |                                                                                   |                                                               |                                                                                                    |
|                               | CHM1DI-48U     | N/A                           | IEC 48 V d.c./32 A<br>UL 48 V d.c./30 A;     | 1                  |                                                                                   |                                                               |                                                                                                    |
|                               | N/A            | CHM1DNXU                      | IEC 690 V a.c./32 A                          | 1 neutral          |                                                                                   | N/A                                                           | N/A                                                                                                |
| CHPV<br>Photovoltaic          | CHPV1IU        | CHPV1U                        | IEC 1000 V d.c./32 A<br>UL 1000 V d.c./30 A; | 1                  |                                                                                   | 33 kA                                                         | Solar PV series,<br>PVM, PV-xxA10F                                                                 |
|                               | CHPV2IU        | CHPV2U                        |                                              | 2                  |                                                                                   |                                                               |                                                                                                    |
| CHCC<br>Class CC              | CHCC1DIU       | CHCC1DU                       | UL; CSA; CCC                                 | 1                  | Cable 75C and 90°C<br>Cu cable<br># 18 to # 4 AWG                                 | 200 kA rms sym                                                | LP-CC, FNQ-R,<br>KTK-R                                                                             |
|                               | CHCC2DIU       | CHCC2DU                       |                                              | 2                  |                                                                                   |                                                               |                                                                                                    |
|                               | CHCC3DIU       | CHCC3DU                       |                                              | 3                  |                                                                                   |                                                               |                                                                                                    |
|                               | N/A            | CHCC1DI-48U                   | UL 48 V d.c./30 A                            | 1                  |                                                                                   |                                                               |                                                                                                    |

### Dimensions - mm



Data sheet: [720147](#)

# Modular cylindrical fuse holders

14 x 51 mm CH Modular fuse holders

## 14 x 51 mm CH Modular fuse holders

14 x 51 mm, CH14



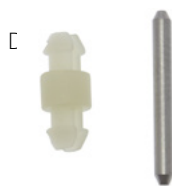
| Fuse holder description                                      | Number of poles | Catalog numbers | Rated voltage           | Rated current (Amps) | Compatible fuse links              |
|--------------------------------------------------------------|-----------------|-----------------|-------------------------|----------------------|------------------------------------|
| Neutral only                                                 | 1               | CH141DNXU       | 690 V a.c. / 750 V d.c. | 50                   | C14G and C14M                      |
| Fuse holder only                                             | 1               | CH141DU         | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder only                                             | 2               | CH142DU         | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder only                                             | 3               | CH143DU         | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder only                                             | 4               | CH144DU         | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder and neutral                                      | 2               | CH141DNU        | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder and neutral                                      | 4               | CH143DNU        | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with neon indicator                              | 1               | CH141DIU        | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with neon indicator                              | 2               | CH142DIU        | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with neon indicator                              | 3               | CH143DIU        | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with neon indicator                              | 4               | CH144DIU        | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with neon indicator and neutral                  | 2               | CH141DNIU       | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with neon indicator and neutral                  | 4               | CH143DNIU       | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with microswitch                                 | 1               | CH141DMSU-F     | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with microswitch                                 | 3               | CH143DMSU-F     | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder with microswitch and neutral                     | 4               | CH143DNMSU-F    | 690 V a.c. / 750 V d.c. | 50                   |                                    |
| Fuse holder for photovoltaic application                     | 1               | CHPV141U        | 1500 V d.c.             | 50                   | PV-A14F refer to data sheet 720132 |
| Fuse holder for photovoltaic application                     | 2               | CHPV142U        | 1500 V d.c.             | 50                   |                                    |
| Fuse holder for photovoltaic application with neon indicator | 1               | CHPV141IU       | 1500 V d.c.             | 50                   |                                    |
| Fuse holder for photovoltaic application with neon indicator | 2               | CHPV142IU       | 1500 V d.c.             | 50                   |                                    |

### Technical data

| Agency markings    | Terminal ratings        | Pack quantity                                    |
|--------------------|-------------------------|--------------------------------------------------|
| IEC 60269-1 and -2 | 2.5 - 50mm <sup>2</sup> | 1 pole: 6<br>2 pole: 3<br>3 pole: 2<br>4 pole: 1 |

### Accessories

| Catalog numbers | Description                                                                                            | Pack quantity |
|-----------------|--------------------------------------------------------------------------------------------------------|---------------|
| JV-L            | Multi pole connector kit. One kit will gang up to 4 poles together                                     | 12            |
| CH14-SPS        | Microswitch to work with CH141D(I)U, 1 n/o + 1 n/c changeover type                                     | 3             |
| CH14-TPS        | Microswitch to work with CH143D(I)U, 1 n/o changeover type                                             | 3             |
| CH14-CTP        | IP20 Protection accessory, provides IP20 protection to terminals with 10 mm <sup>2</sup> or less cable | 12            |



JV-L



CH14-SPS

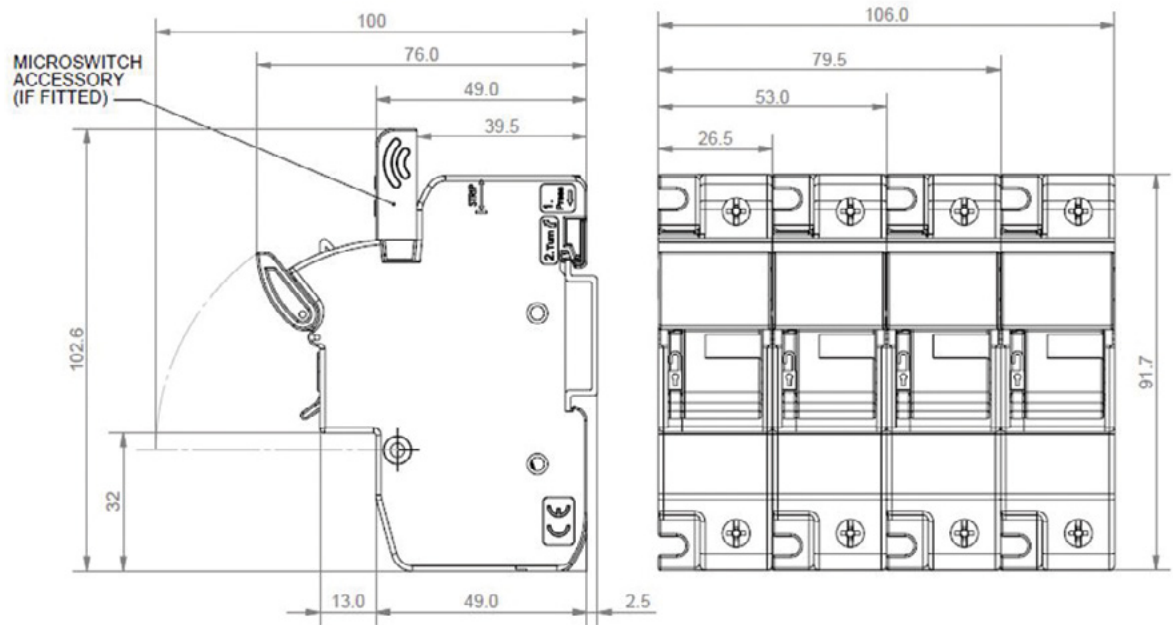


CH14-TPS

## 14 x 51 mm CH Modular fuse holders

14 x 51 mm, CH14

Dimensions - mm



[Data sheet: 10080](#)

# Modular cylindrical fuse holders

22 x 58 mm CH Modular fuse holders

## 22 x 58 mm CH Modular fuse holders

### 22 x 58 mm, CH22



| Fuse holder description                     | Number of poles | Catalog numbers | Rated current (Amps) | Rated voltage           | Compatible fuse links |
|---------------------------------------------|-----------------|-----------------|----------------------|-------------------------|-----------------------|
| Neutral only                                | 1               | CH221DNXU       | 125 A                | 690 V a.c./ 1000 V d.c. | C22G and C22M         |
| Fuse holder only                            | 1               | CH221DU         | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder only                            | 2               | CH222DU         | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder only                            | 3               | CH223DU         | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder only                            | 4               | CH224DU         | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neon indicator             | 1               | CH221DIU        | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neon indicator             | 2               | CH222DIU        | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neon indicator             | 3               | CH223DIU        | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neon indicator             | 4               | CH224DIU        | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder and neutral                     | 2               | CH221DNU        | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder and neutral                     | 4               | CH223DNU        | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neon indicator and neutral | 2               | CH221DNIU       | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neon indicator and neutral | 4               | CH223DNIU       | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with microswitch                | 1               | CH221DMSU-F     | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with microswitch                | 3               | CH223DMSU-F     | 125 A                | 690 V a.c./ 1000 V d.c. |                       |
| Fuse holder with neutral and microswitch    | 3               | CH223DNMSU-F    | 125 A                | 690 V a.c./ 1000 V d.c. |                       |

### Technical data

| Agency markings    | Terminal ratings       | Pack quantity                                    |
|--------------------|------------------------|--------------------------------------------------|
| IEC 60269-1 and -2 | 4 - 50 mm <sup>2</sup> | 1 pole: 6<br>2 pole: 3<br>3 pole: 2<br>4 pole: 1 |

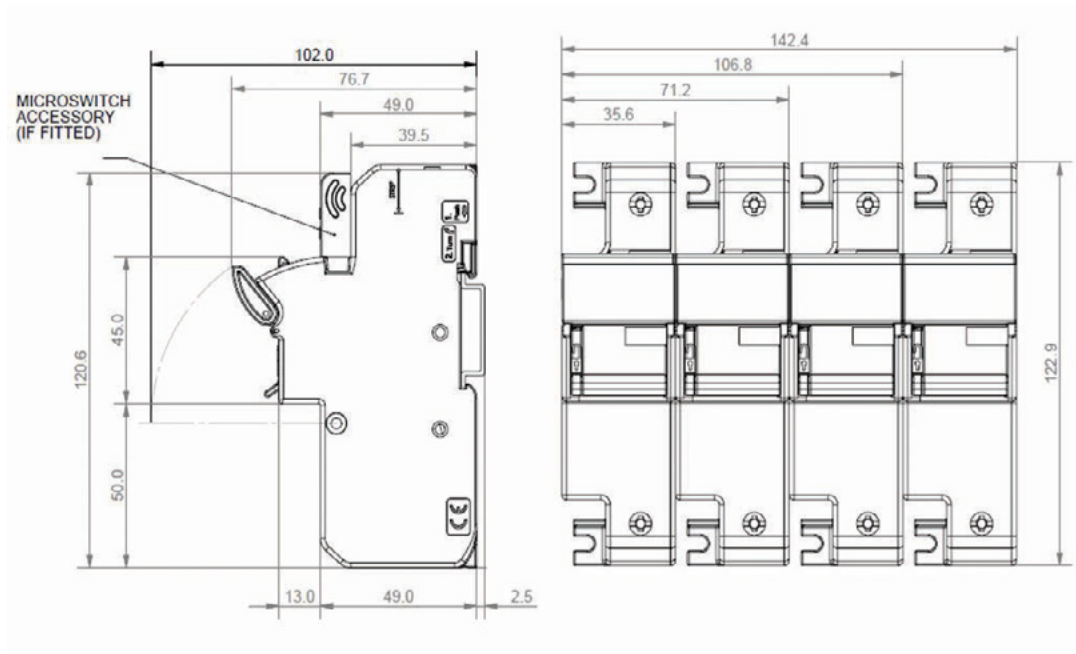
### Accessories

| Catalog numbers | Description                                                                                           | Pack quantity |
|-----------------|-------------------------------------------------------------------------------------------------------|---------------|
| JV-L            | Multi-pole connector kit. One kit will gang up to 4 poles together                                    | 12            |
| CH22-CTP        | IP20 protection accessory, provide IP20 protection to terminals with 10 mm <sup>2</sup> or less cable | 12            |
| CH22-SPS        | 1 pole microswitch accessory for fuse operation/presence and pre-disconnect remote indication         | 3             |
| CH22-TPS        | 3 pole microswitch accessory for fuse operation/presence and pre-disconnect remote indication         | 3             |

[Data sheet: 10115](#)

## 22 x 58 mm CH Modular fuse holders

### Dimensions - mm



Data sheet: [10115](#)

## NH Fuse links

400 V a.c., class gFF, 10 to 630 Amps, sizes 000 to 3 NH fuse links

### 400 V a.c., class gFF, 10 to 630 Amps, sizes 000 to 3 NH fuse links

#### Specifications

##### Description

A square bodied range of industrial fuse links for a wide variety of applications.

##### Standard/agency information

IEC 60269-1 and 2, VDE 0636, DIN 43620 and CE

#### Technical data

Sizes 000 to 3  
Rated voltage: 400 V a.c.  
Rated current: 10 to 630 A  
Operating class: gFF  
Breaking capacity: 120 kA AC  
Rated frequency: 50Hz  
Operating frequency: 45-62 Hz

#### Product selection

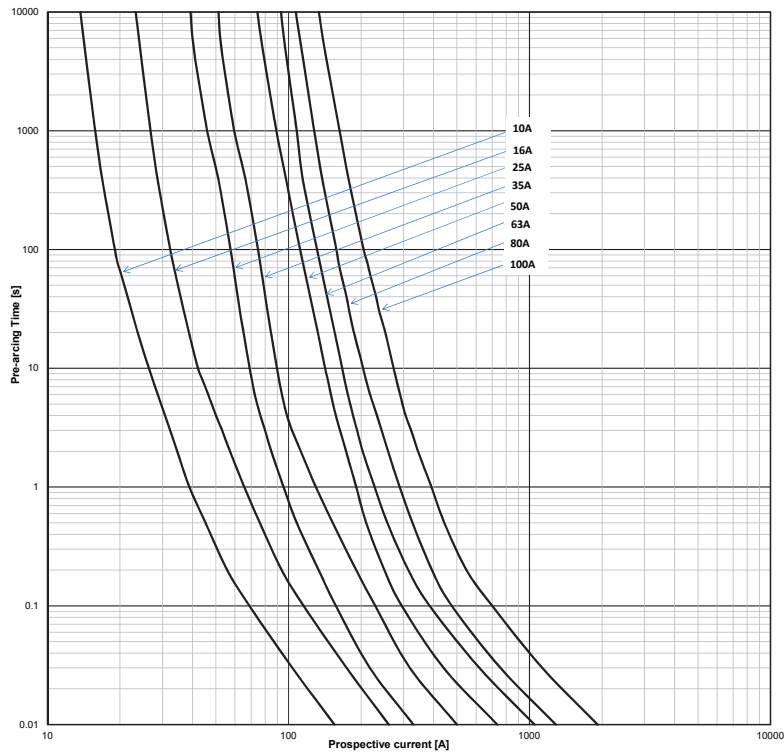


| Size | Rated voltage | Rated current (Amps) | Catalog numbers               | Dual indicator | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|-------------------------------|----------------|---------------|-----------------------|
|      |               |                      | Insulated Metal Gripping Lugs |                |               |                       |
| 000  | 400 V a.c.    | 10                   | 10NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 16                   | 16NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 25                   | 25NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 35                   | 35NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 50                   | 50NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 63                   | 63NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 80                   | 80NHFF000BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 100                  | 100NHFF000BI-400              |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 63                   | 63NHFF00BI-400                |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 80                   | 80NHFF00BI-400                |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 100                  | 100NHFF00BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 125                  | 125NHFF00BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 160                  | 160NHFF00BI-400               |                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 35                   | 35NHFF1BI-400                 |                | 3             | SD00-D                |
| 00   | 400 V a.c.    | 50                   | 50NHFF1BI-400                 |                | 3             | SD00-D                |
| 00   | 400 V a.c.    | 63                   | 63NHFF1BI-400                 |                | 3             | SD00-D                |
| 01   | 400 V a.c.    | 80                   | 80NHFF1BI-400                 |                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 100                  | 100NHFF1BI-400                |                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 125                  | 125NHFF1BI-400                |                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 160                  | 160NHFF1BI-400                |                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 200                  | 200NHFF1BI-400                |                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 224                  | 224NHFF1BI-400                |                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 250                  | 250NHFF1BI-400                |                | 3             | SD1-D                 |
| 02   | 400 V a.c.    | 160                  | 160NHFF02BI-400               |                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 200                  | 200NHFF02BI-400               |                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 250                  | 250NHFF02BI-400               |                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 315                  | 315NHFF2BI-400                |                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 355                  | 355NHFF2BI-400                |                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 400                  | 400NHFF2BI-400                |                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 450                  | 450NHFF3BI-400                |                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 500                  | 500NHFF3BI-400                |                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 630                  | 630NHFF3BI-400                |                | 3             | SD2-D                 |

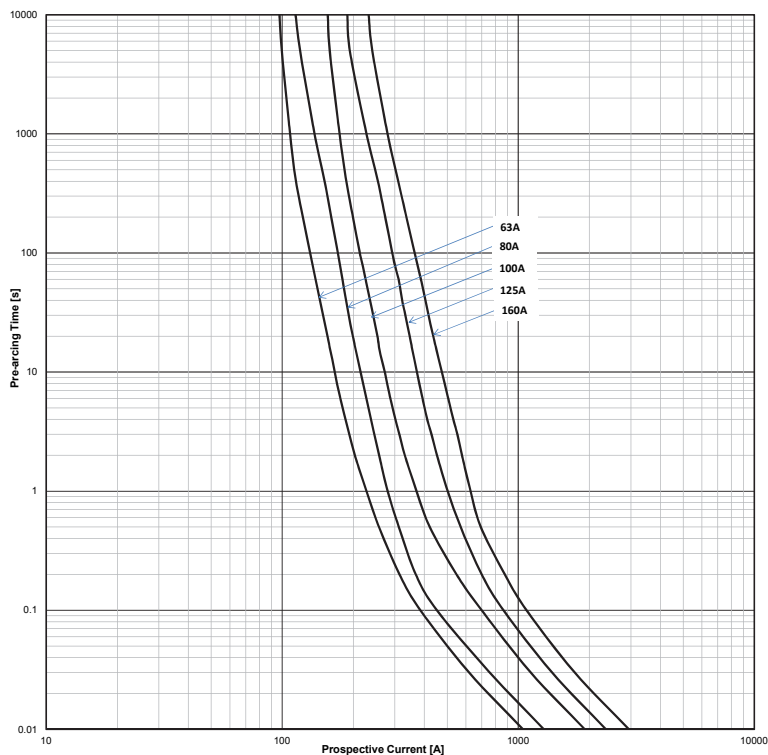
[Data sheet: 10623](#)

## Time-current curves

### Size 000



### Size 00



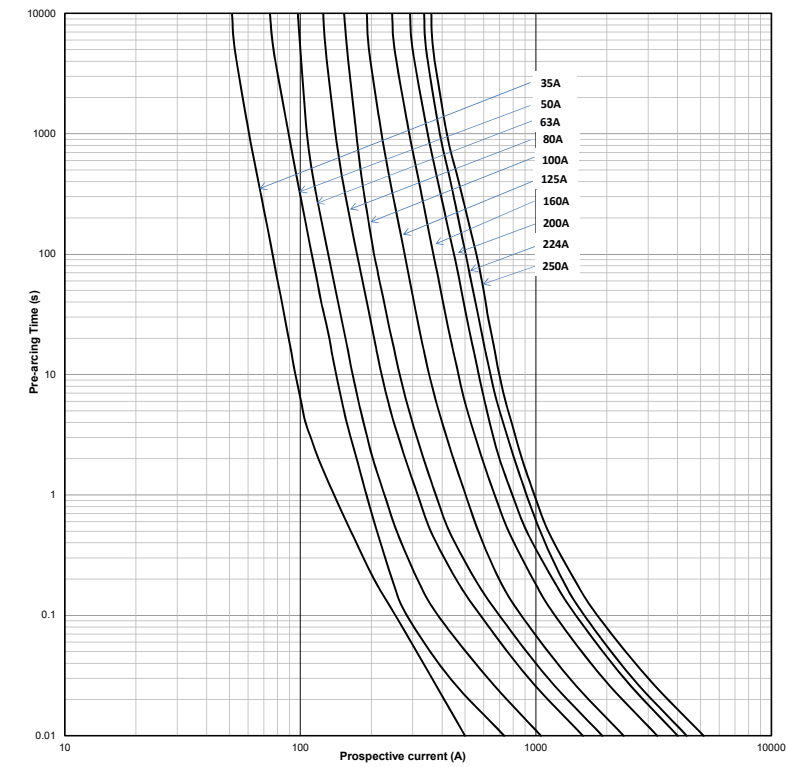
[Data sheet: 10623](#)

# NH Fuse links

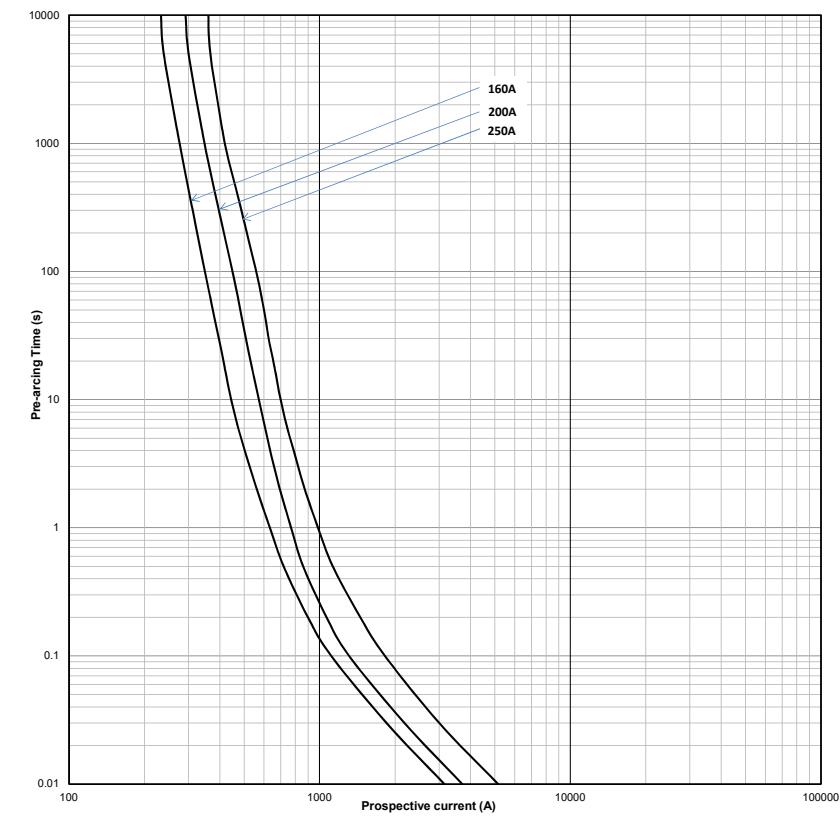
400 V a.c., class gFF, 10 to 630 Amps, sizes 000 to 3 NH fuse links

## Time-current curves

### Size 1



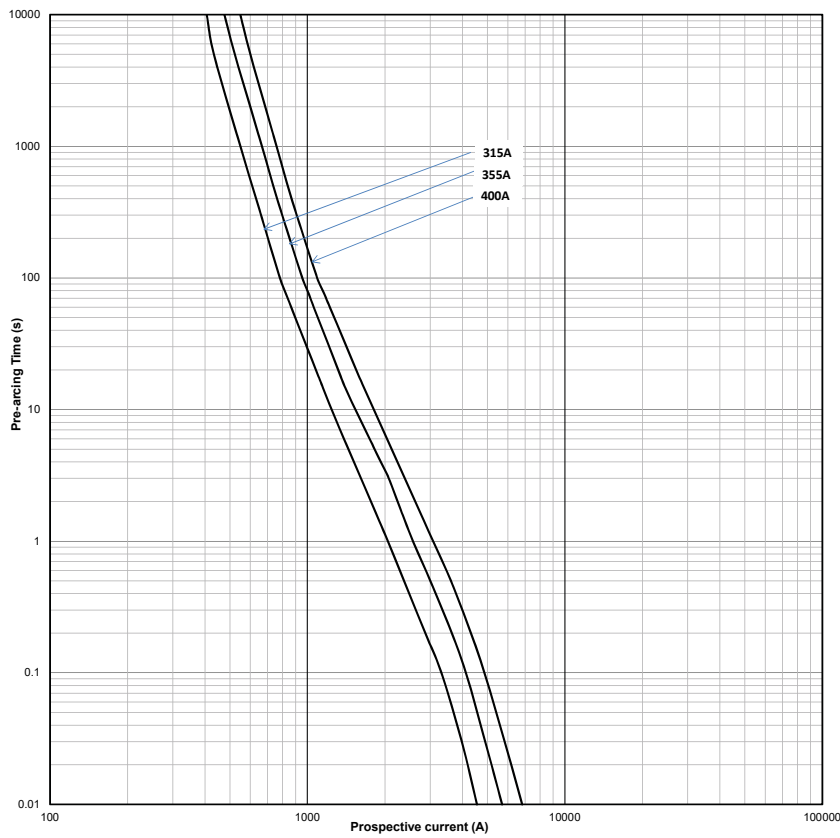
### Size 02



[Data sheet: 10623](#)

## Time-current curves

### Size 2



# NH Fuse links

400 V a.c., class gG/gL, 2 to 630 Amps, sizes 000 to 3 NH fuse links

## 400 V a.c., class gG/gL, 2 to 630 Amps, sizes 000 to 3 NH fuse links

### Specifications

#### Description

A square bodied range of industrial fuse links for a wide variety of applications.

#### Standard/agency information

IEC 60269-1 and 2, VDE 0636, DIN 43620 and CE

### Technical data

Sizes 000 to 3  
 Rated voltage: 400 V a.c.  
 Rated current: 2 to 630 A  
 Operating class: gG/gL  
 Breaking capacity: 120 kA AC  
 Rated frequency: 50Hz  
 Operating frequency: 45-62 Hz

### Product selection



| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        |                               | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|----------------------------------------|-------------------------------|---------------|-----------------------|
|      |               |                      | Voltage conducting metal gripping lugs | Insulated Metal Gripping Lugs |               |                       |
| 000  | 400 V a.c.    | 2                    | 2NHG000B-400                           | 2NHG000BI-400                 | 3             | SD00-D                |
| 000  | 400 V a.c.    | 4                    | 4NHG000B-400                           | 4NHG000BI-400                 | 3             | SD00-D                |
| 000  | 400 V a.c.    | 6                    | 6NHG000B-400                           | 6NHG000BI-400                 | 3             | SD00-D                |
| 000  | 400 V a.c.    | 10                   | 10NHG000B-400                          | 10NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 16                   | 16NHG000B-400                          | 16NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 20                   | 20NHG000B-400                          | 20NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 25                   | 25NHG000B-400                          | 25NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 32                   | 32NHG000B-400                          | 32NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 35                   | 35NHG000B-400                          | 35NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 40                   | 40NHG000B-400                          | 40NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 50                   | 50NHG000B-400                          | 50NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 63                   | 63NHG000B-400                          | 63NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 80                   | 80NHG000B-400                          | 80NHG000BI-400                | 3             | SD00-D                |
| 000  | 400 V a.c.    | 100                  | 100NHG000B-400                         | 100NHG000BI-400               | 3             | SD00-D                |
| 00   | 400 V a.c.    | 125                  | 125NHG00B-400                          | 125NHG00BI-400                | 3             | SD00-D                |
| 00   | 400 V a.c.    | 160                  | 160NHG00B-400                          | 160NHG00BI-400                | 3             | SD00-D                |
| 01   | 400 V a.c.    | 35                   | 35NHG01B-400                           | 35NHG01BI-400                 | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 40                   | 40NHG01B-400                           | 40NHG01BI-400                 | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 50                   | 50NHG01B-400                           | 50NHG01BI-400                 | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 63                   | 63NHG01B-400                           | 63NHG01BI-400                 | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 80                   | 80NHG01B-400                           | 80NHG01BI-400                 | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 100                  | 100NHG01B-400                          | 100NHG01BI-400                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 125                  | 125NHG01B-400                          | 125NHG01BI-400                | 3             | SD1-D                 |
| 01   | 400 V a.c.    | 160                  | 160NHG01B-400                          | 160NHG01BI-400                | 3             | SD1-D                 |
| 1    | 400 V a.c.    | 200                  | 200NHG1B-400                           | 200NHG1BI-400                 | 3             | SD1-D                 |
| 1    | 400 V a.c.    | 224                  | 224NHG1B-400                           | 224NHG1BI-400                 | 3             | SD1-D                 |
| 1    | 400 V a.c.    | 250                  | 250NHG1B-400                           | 250NHG1BI-400                 | 3             | SD1-D                 |

Data sheet: [720099](#)

400 V a.c., class gG/gL, 2 to 630 Amps, sizes 000 to 3 NH fuse links

## 400 V a.c., class gG/gL, 2 to 630 Amps, sizes 000 to 3 NH fuse links

## Product selection



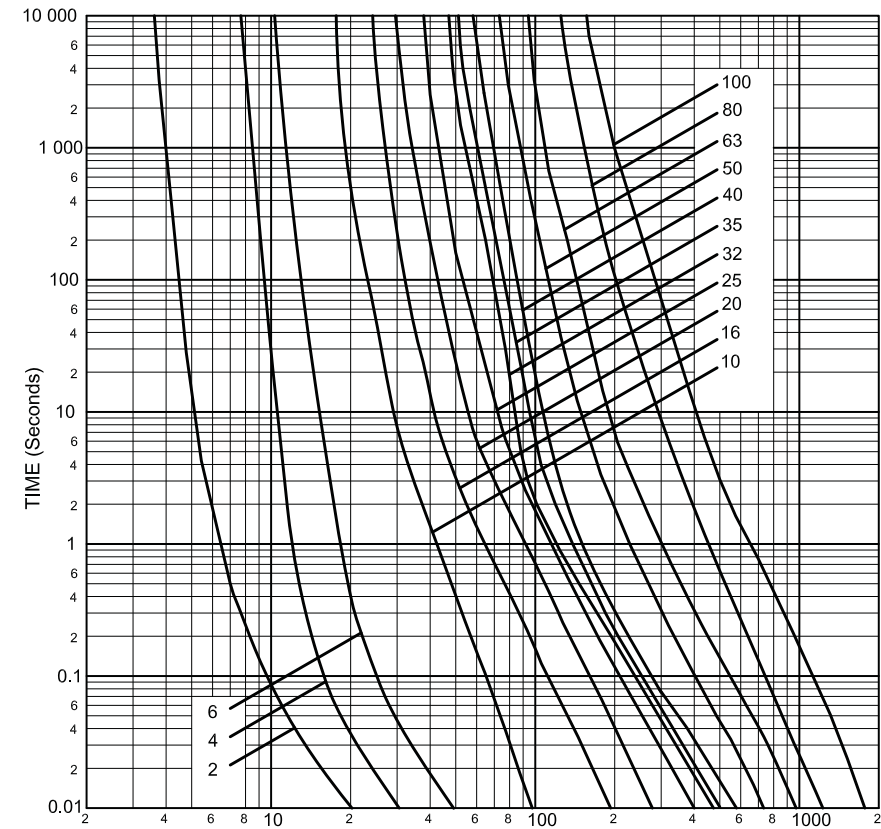
| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        |                               | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|----------------------------------------|-------------------------------|---------------|-----------------------|
|      |               |                      | Voltage conducting metal gripping lugs | Insulated Metal Gripping Lugs |               |                       |
| 02   | 400 V a.c.    | 35                   | 35NHG02B-400                           | 35NHG02BI-400                 | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 40                   | 40NHG02B-400                           | 40NHG02BI-400                 | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 50                   | 50NHG02B-400                           | 50NHG02BI-400                 | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 63                   | 63NHG02B-400                           | 63NHG02BI-400                 | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 80                   | 80NHG02B-400                           | 80NHG02BI-400                 | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 100                  | 100NHG02B-400                          | 100NHG02BI-400                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 125                  | 125NHG02B-400                          | 125NHG02BI-400                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 160                  | 160NHG02B-400                          | 160NHG02BI-400                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 200                  | 200NHG02B-400                          | 200NHG02BI-400                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 224                  | 224NHG02B-400                          | 224NHG02BI-400                | 3             | SD2-D                 |
| 02   | 400 V a.c.    | 250                  | 250NHG02B-400                          | 250NHG02BI-400                | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 315                  | 315NHG2B-400                           | 315NHG2BI-400                 | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 355                  | 355NHG2B-400                           | 355NHG2BI-400                 | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 400                  | 400NHG2B-400                           | 400NHG2BI-400                 | 3             | SD2-D                 |
| 2    | 400 V a.c.    | 630                  | 630NHG2B-400                           | -                             | 3             | SD2-D                 |
| 03   | 400 V a.c.    | 250                  | 250NHG03B-400                          | 250NHG03BI-400                | 3             | SD3-D                 |
| 03   | 400 V a.c.    | 315                  | 315NHG03B-400                          | 315NHG03BI-400                | 3             | SD3-D                 |
| 03   | 400 V a.c.    | 355                  | 355NHG03B-400                          | 355NHG03BI-400                | 3             | SD3-D                 |
| 03   | 400 V a.c.    | 400                  | 400NHG03B-400                          | 400NHG03BI-400                | 3             | SD3-D                 |
| 3    | 400 V a.c.    | 500                  | 500NHG3B-400                           | 500NHG3BI-400                 | 3             | SD3-D                 |
| 3    | 400 V a.c.    | 630                  | 630NHG3B-400                           | 630NHG3BI-400                 | 3             | SD3-D                 |

# NH Fuse links

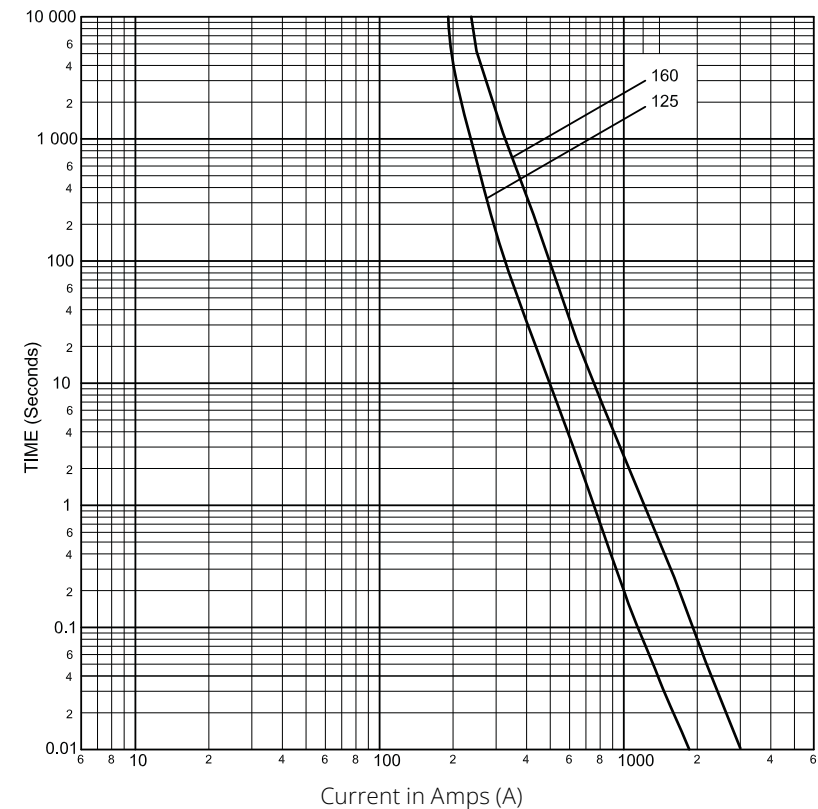
400 V a.c., class gG/gL, 2 to 630 Amps, sizes 000 to 3 NH fuse links

## Time-current curves

### Size 000



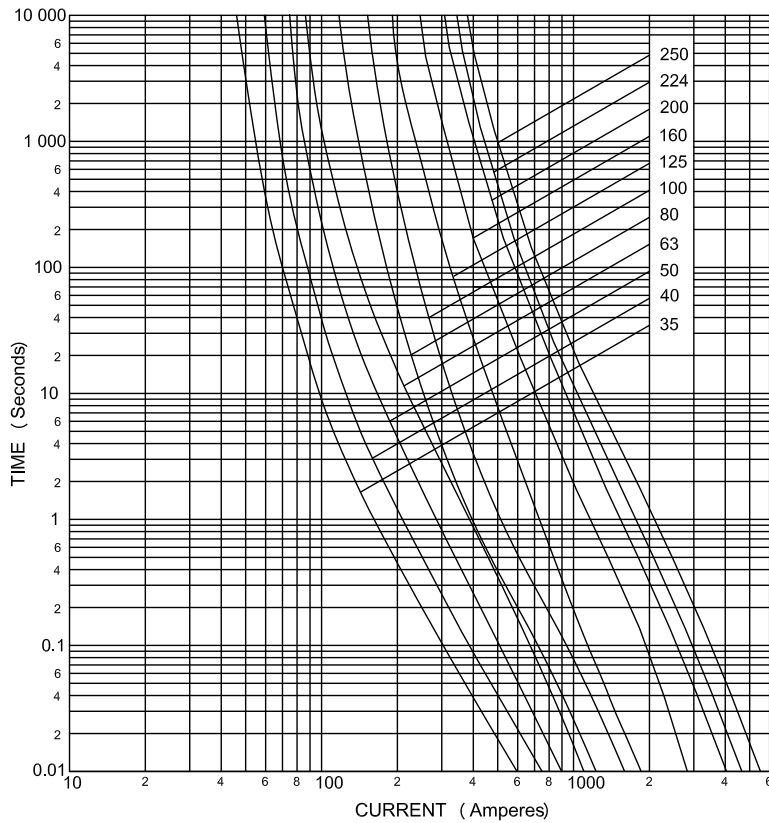
### Size 00



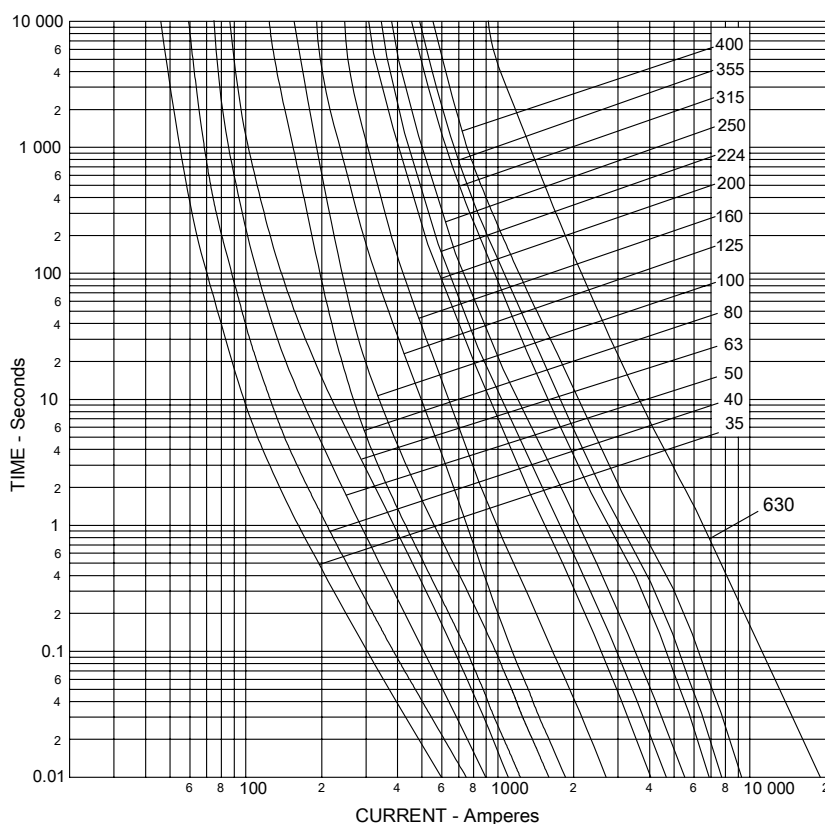
[Data sheet: 720099](#)

## Time-current curves

### Sizes 01 and 1



### Size 2



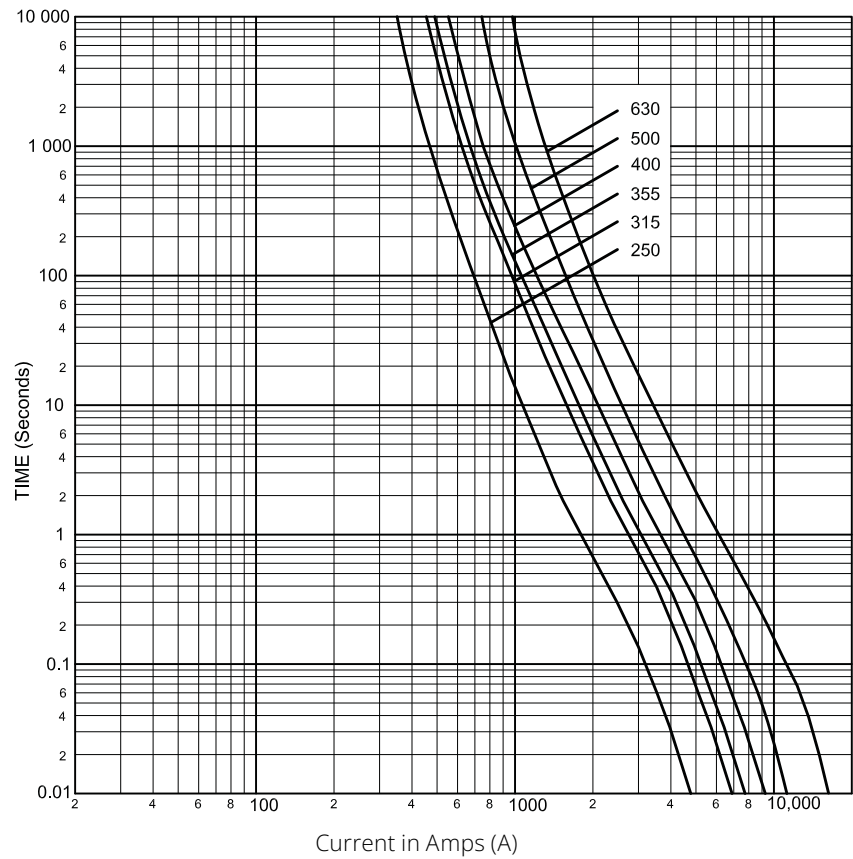
[Data sheet: 720099](#)

# NH Fuse links

400 V a.c., class gG/gL, 2 to 630 Amps, sizes 000 to 3 NH fuse links

## Time-current curves

### Size 3



500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## 500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## Specifications

## Description

A square bodied range of industrial fuse links for a wide variety of applications.

## Standard/agency information

IEC 60269-1 and 2, VDE 0636, DIN 43620 and CE

## Technical data

Sizes 000 to 4  
 Rated voltage: 500 V a.c.  
 Rated current: 2 to 1250 A  
 Operating class: gG/gL  
 Breaking capacity: 120 kA AC  
 Operating frequency: 45-62 Hz

## Product selection



| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        |                               | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|----------------------------------------|-------------------------------|---------------|-----------------------|
|      |               |                      | Voltage conducting metal gripping lugs | Insulated metal gripping lugs |               |                       |
| 000  | 500 V a.c.    | 2                    | 2NHG000B                               | 2NHG000BI                     | 3             | SD00-D                |
| 000  | 500 V a.c.    | 4                    | 4NHG000B                               | 4NHG000BI                     | 3             | SD00-D                |
| 000  | 500 V a.c.    | 6                    | 6NHG000B                               | 6NHG000BI                     | 3             | SD00-D                |
| 000  | 500 V a.c.    | 10                   | 10NHG000B                              | 10NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 16                   | 16NHG000B                              | 16NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 20                   | 20NHG000B                              | 20NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 25                   | 25NHG000B                              | 25NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 32                   | 32NHG000B                              | 32NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 35                   | 35NHG000B                              | 35NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 40                   | 40NHG000B                              | 40NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 50                   | 50NHG000B                              | 50NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 63                   | 63NHG000B                              | 63NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 80                   | 80NHG000B                              | 80NHG000BI                    | 3             | SD00-D                |
| 000  | 500 V a.c.    | 100                  | 100NHG000B                             | 100NHG000BI                   | 3             | SD00-D                |
| 00   | 500 V a.c.    | 50                   | 50NHG00B                               | 50NHG00BI*                    | 3             | SD00-D                |
| 00   | 500 V a.c.    | 63                   | 63NHG00B                               | 63NHG00BI*                    | 3             | SD00-D                |
| 00   | 500 V a.c.    | 80                   | 80NHG00B                               | 80NHG00BI*                    | 3             | SD00-D                |
| 00   | 500 V a.c.    | 100                  | 100NHG00B                              | 100NHG00BI*                   | 3             | SD00-D                |
| 00   | 500 V a.c.    | 125                  | 125NHG00B                              | 125NHG00BI                    | 3             | SD00-D                |
| 00   | 500 V a.c.    | 160                  | 160NHG00B                              | 160NHG00BI                    | 3             | SD00-D                |
| 0    | 500 V a.c.    | 6                    | 6NHG0B                                 | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 10                   | 10NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 16                   | 16NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 20                   | 20NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 25                   | 25NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 32                   | 32NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 35                   | 35NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 40                   | 40NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 50                   | 50NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 63                   | 63NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 80                   | 80NHG0B                                | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 100                  | 100NHG0B                               | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 125                  | 125NHG0B                               | -                             | 3             | -                     |
| 0    | 500 V a.c.    | 160                  | 160NHG0B                               | -                             | 3             | -                     |

# NH Fuse links

500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## 500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

### Product selection



| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        |                               | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|----------------------------------------|-------------------------------|---------------|-----------------------|
|      |               |                      | Voltage conducting metal gripping lugs | Insulated metal gripping lugs |               |                       |
| 01   | 500 V a.c.    | 6                    | 6NHG01B                                | 6NHG01BI                      | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 10                   | 10NHG01B                               | 10NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 16                   | 16NHG01B                               | 16NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 20                   | 20NHG01B                               | 20NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 25                   | 25NHG01B                               | 25NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 32                   | 32NHG01B                               | 32NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 35                   | 35NHG01B                               | 35NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 40                   | 40NHG01B                               | 40NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 50                   | 50NHG01B                               | 50NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 63                   | 63NHG01B                               | 63NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 80                   | 80NHG01B                               | 80NHG01BI                     | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 100                  | 100NHG01B                              | 100NHG01BI                    | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 125                  | 125NHG01B                              | 125NHG01BI                    | 3             | SD1-D                 |
| 01   | 500 V a.c.    | 160                  | 160NHG01B                              | 160NHG01BI                    | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 50                   | 50NHG1B                                | 50NHG1BI                      | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 63                   | 63NHG1B                                | 63NHG1BI                      | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 80                   | 80NHG1B                                | 80NHG1BI                      | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 100                  | 100NHG1B                               | 100NHG1BI                     | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 125                  | 125NHG1B                               | 125NHG1BI                     | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 160                  | 160NHG1B                               | 160NHG1BI                     | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 200                  | 200NHG1B                               | 200NHG1BI                     | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 224                  | 224NHG1B                               | 224NHG1BI                     | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 250                  | 250NHG1B                               | 250NHG1BI                     | 3             | SD1-D                 |
| 1    | 440 V a.c.    | 315                  | 315NHG1B                               | 315NHG1BI                     | 3             | SD1-D                 |
| 1    | 500 V a.c.    | 355                  | 355NHG1B                               | 355NHG1BI                     | 3             | SD1-D                 |
| 02   | 500 V a.c.    | 35                   | 35NHG02B                               | 35NHG02BI                     | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 40                   | 40NHG02B                               | 40NHG02BI                     | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 50                   | 50NHG02B                               | 50NHG02BI                     | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 63                   | 63NHG02B                               | 63NHG02BI                     | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 80                   | 80NHG02B                               | 80NHG02BI                     | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 100                  | 100NHG02B                              | 100NHG02BI                    | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 125                  | 125NHG02B                              | 125NHG02BI                    | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 160                  | 160NHG02B                              | 160NHG02BI                    | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 200                  | 200NHG02B                              | 200NHG02BI                    | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 224                  | 224NHG02B                              | 224NHG02BI                    | 3             | SD2-D                 |
| 02   | 500 V a.c.    | 250                  | 250NHG02B                              | 250NHG02BI                    | 3             | SD2-D                 |

Data sheet: 10164

500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## 500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## Product selection



| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        |                               | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|----------------------------------------|-------------------------------|---------------|-----------------------|
|      |               |                      | Voltage conducting metal gripping lugs | Insulated metal gripping lugs |               |                       |
| 2    | 500 V a.c.    | 250                  | 250NHG2B                               | 250NHG2BI                     | 3             | SD2-D                 |
| 2    | 500 V a.c.    | 300                  | 300NHG2B                               | 300NHG2BI                     | 3             | SD2-D                 |
| 2    | 500 V a.c.    | 315                  | 315NHG2B                               | 315NHG2BI                     | 3             | SD2-D                 |
| 2    | 500 V a.c.    | 355                  | 355NHG2B                               | 355NHG2BI                     | 3             | SD2-D                 |
| 2    | 500 V a.c.    | 400                  | 400NHG2B                               | 400NHG2BI                     | 3             | SD2-D                 |
| 2    | 500 V a.c.    | 425                  | 425NHG2B                               | 425NHG2BI                     | 3             | SD2-D                 |
| 2    | 500 V a.c.    | 450                  | 450NHG2B                               | 450NHG2BI                     | 3             | SD2-D                 |
| 2    | 440 V a.c.    | 500                  | 500NHG2B                               | 500NHG2BI                     | 3             | SD2-D                 |
| 03   | 500 V a.c.    | 250                  | 250NHG03B                              | 250NHG03BI                    | 3             | SD3-D                 |
| 03   | 500 V a.c.    | 315                  | 315NHG03B                              | 315NHG03BI                    | 3             | SD3-D                 |
| 03   | 500 V a.c.    | 355                  | 355NHG03B                              | 355NHG03BI                    | 3             | SD3-D                 |
| 03   | 500 V a.c.    | 400                  | 400NHG03B                              | 400NHG03BI                    | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 315                  | 315NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 355                  | 355NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 400                  | 400NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 425                  | 425NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 450                  | 450NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 500                  | 500NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 500 V a.c.    | 630                  | 630NHG3B                               | -                             | 3             | SD3-D                 |
| 3    | 440 V a.c.    | 800                  | 800NHG3B                               | -                             | 3             | SD3-D                 |
| 4**  | 500 V a.c.    | 500                  | 500NHG4G                               | -                             | 1             | SD4-S                 |
| 4**  | 500 V a.c.    | 630                  | 630NHG4G                               | -                             | 1             | SD4-S                 |
| 4**  | 500 V a.c.    | 800                  | 800NHG4G                               | -                             | 1             | SD4-S                 |
| 4**  | 500 V a.c.    | 1000                 | 1000NHG4G                              | -                             | 1             | SD4-S                 |
| 4**  | 500 V a.c.    | 1250                 | 1250NHG4G                              | -                             | 1             | SD4-S                 |

\* Available upon request

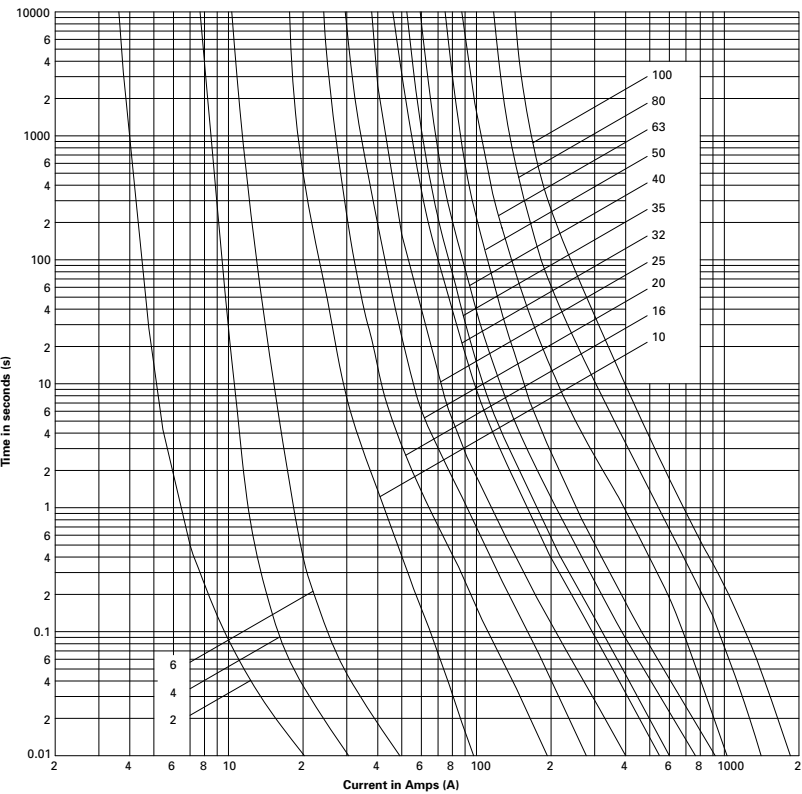
\*\* Size 4 NH is a single indication fuse with slotted end tags

# NH Fuse links

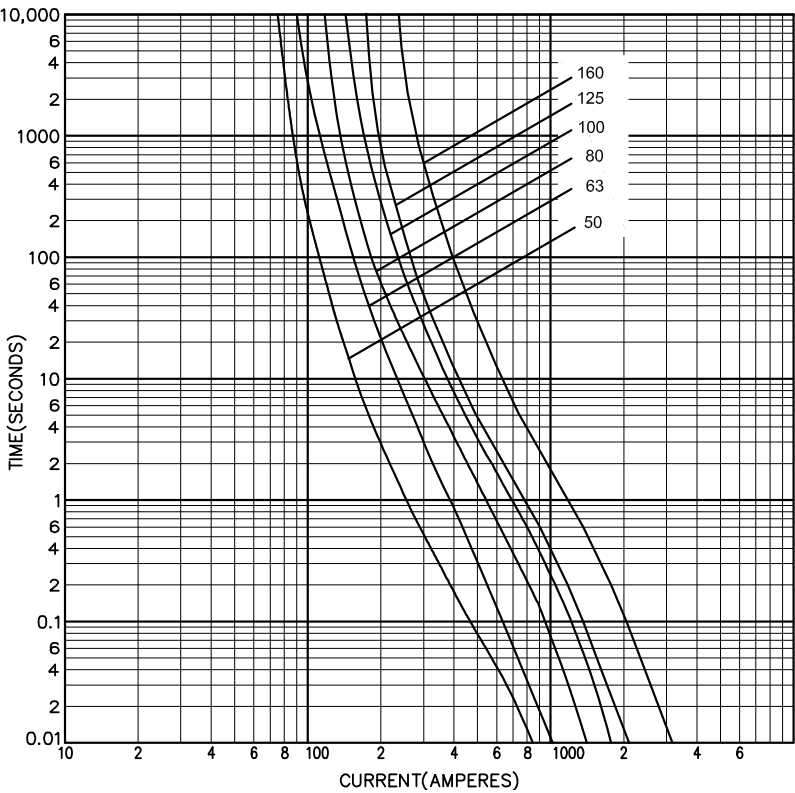
500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## Time-current curves

### Size 000



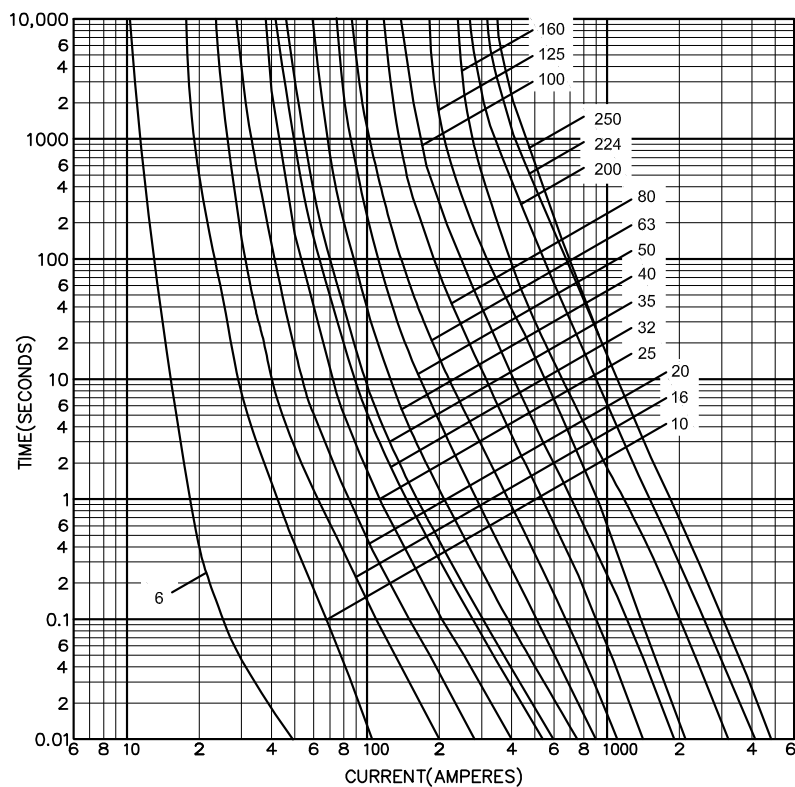
### Size 00



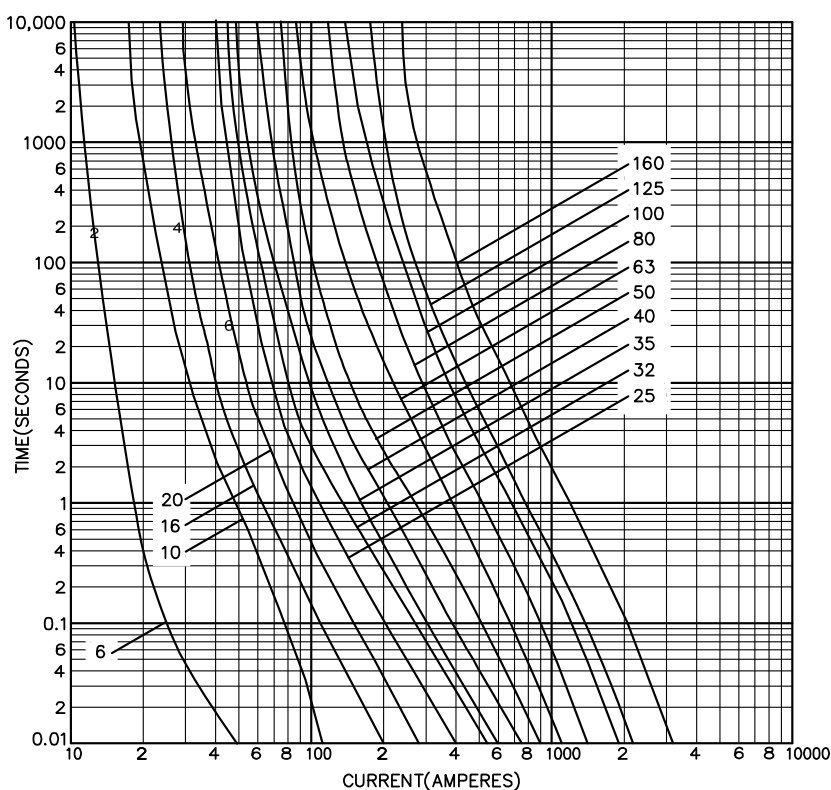
[Data sheet: 10164](#)

## Time-current curves

### Size 0



### Size 01



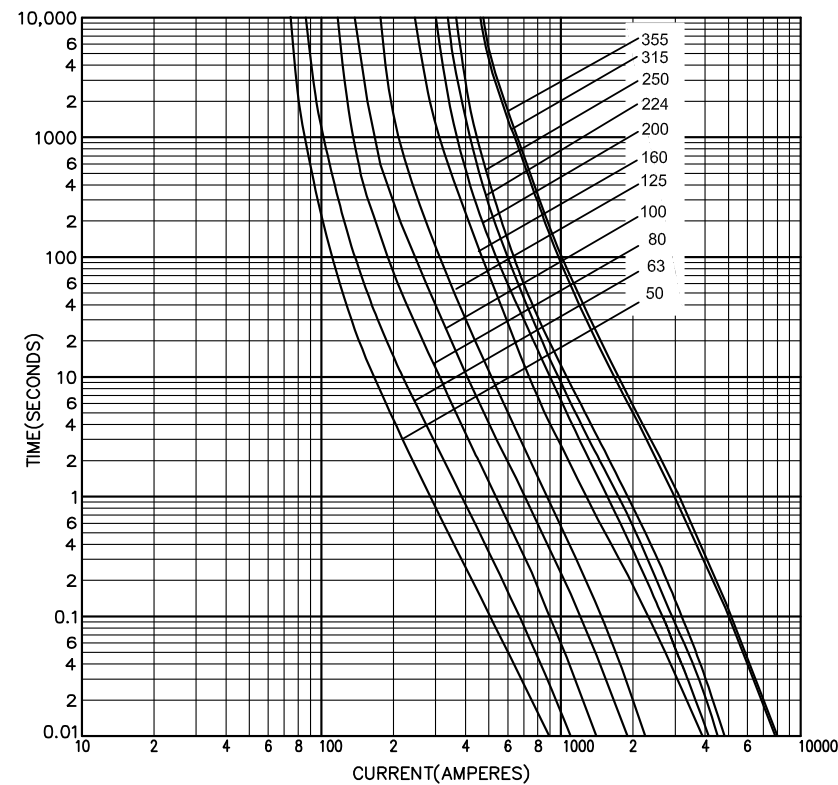
[Data sheet: 10164](#)

# NH Fuse links

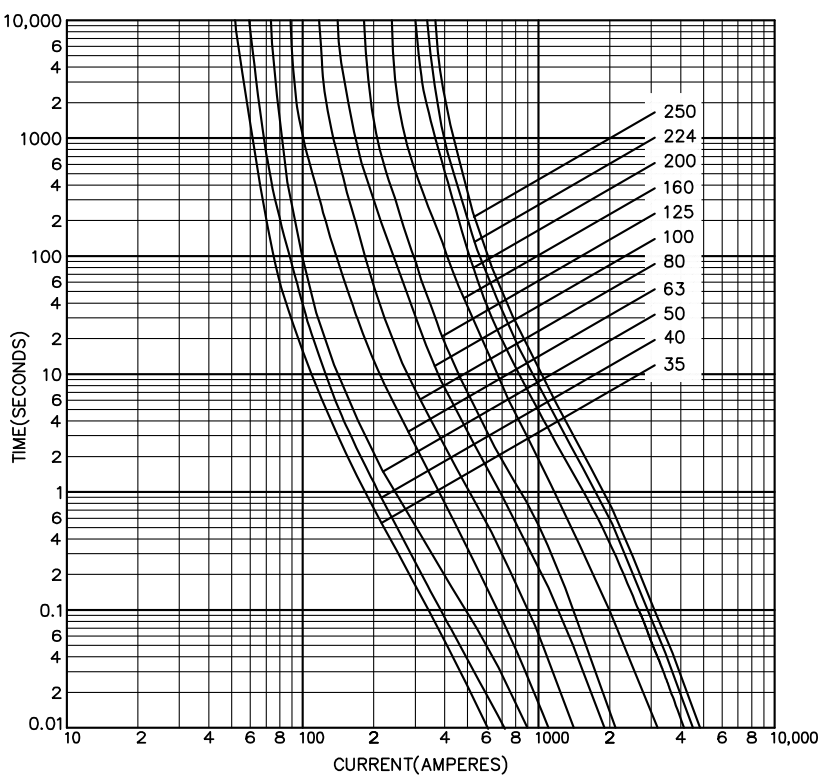
500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## Time-current curves

### Size 1



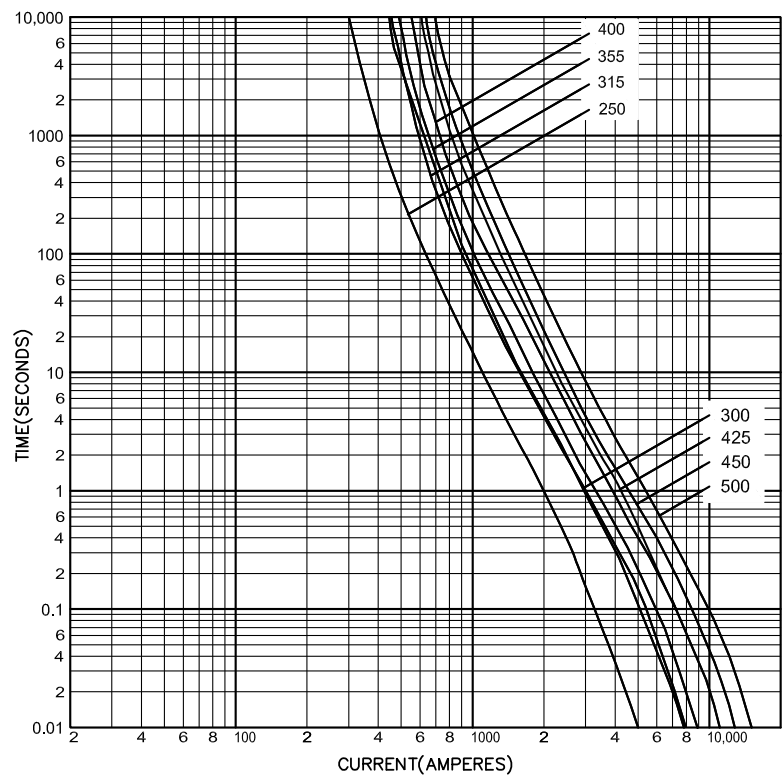
### Size 02



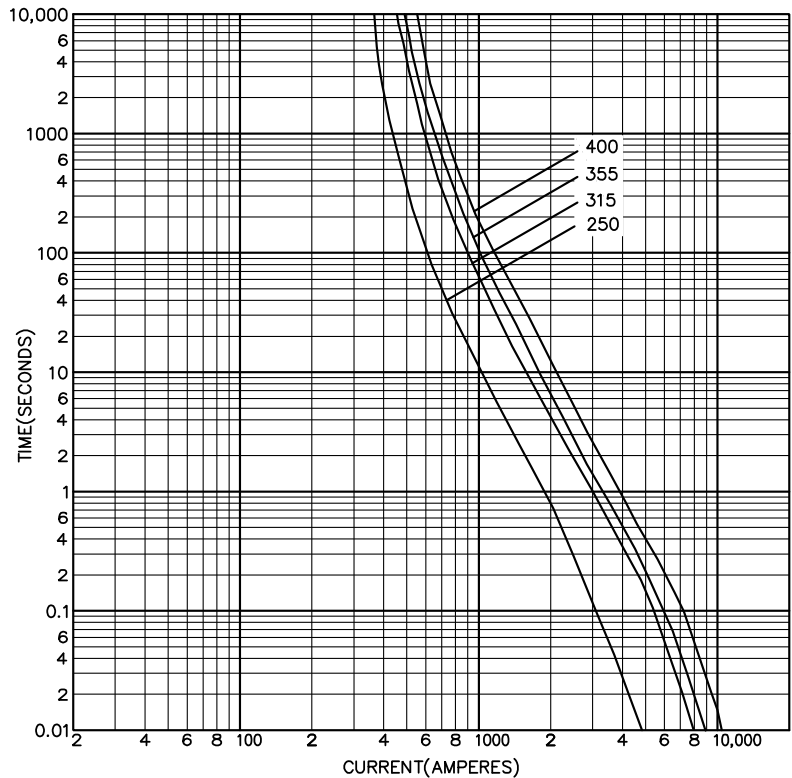
[Data sheet: 10164](#)

Time-current curves

Size 2



Size 03



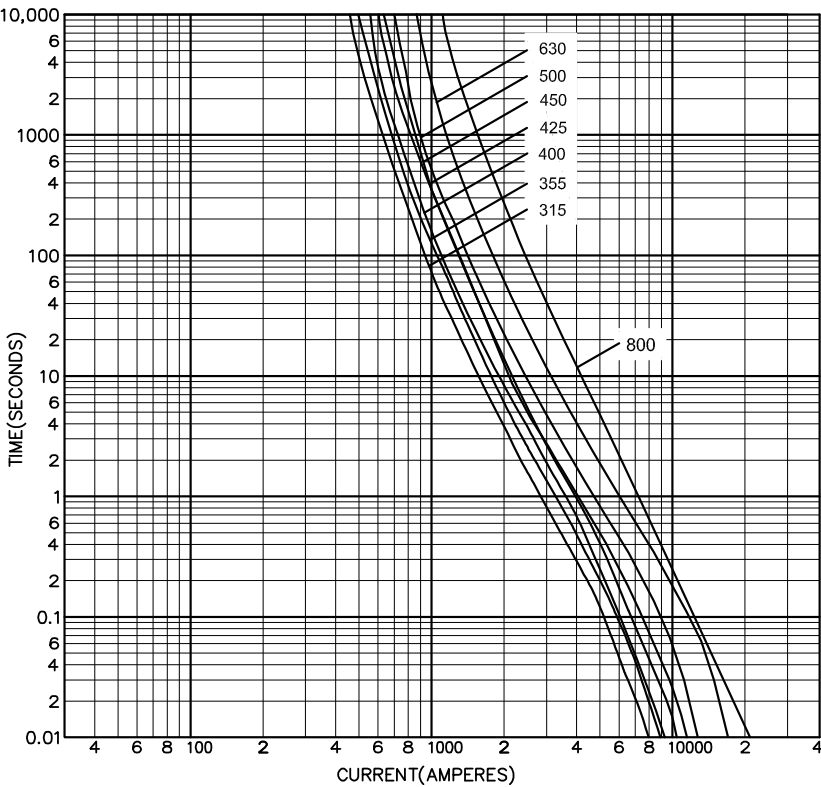
[Data sheet: 10164](#)

# NH Fuse links

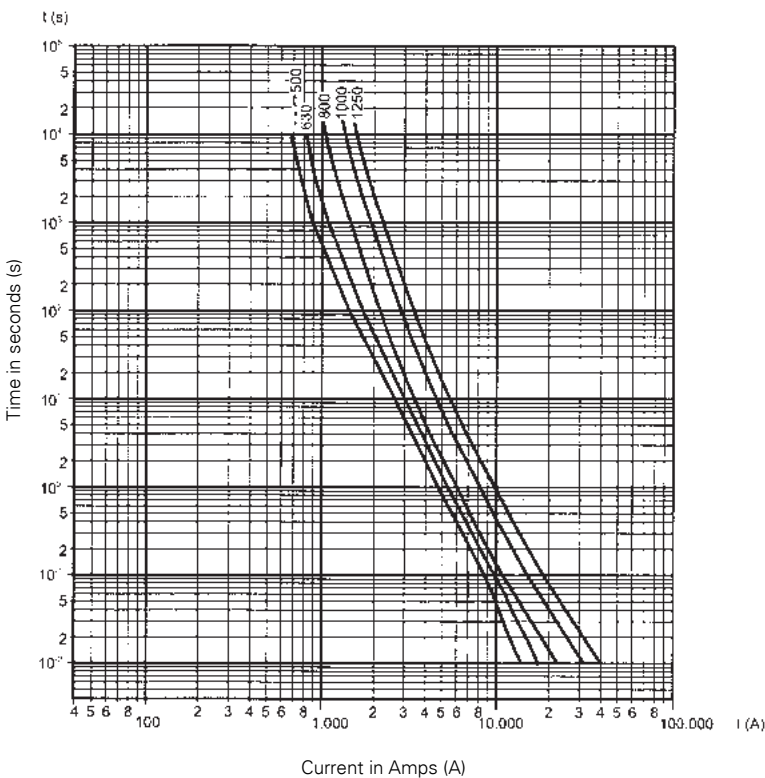
500 V a.c., class gG/gL, 2 to 1250 Amps, sizes 000 to 4 NH fuse links

## Time-current curves

### Size 3



### Size 4



Data sheet: [10164](#)

500 V a.c., NH Weather resistant, class gG/gL, 35 to 400 Amps, sizes 00 and 2 fuse links

## 500 V a.c., NH Weather resistant, class gG/gL, 35 to 400 Amps, sizes 00 and 2 fuse links

## Specifications

## Description

A square bodied range of industrial fuse links specifically designed where weather resistance is needed.

## Standard/agency information

IEC 60269, DIN 43620 and CE

## Technical data

Sizes: 00 and 2  
 Rated voltage: 500 V a.c.  
 Rated current: 35 to 400 A  
 Operating class: gG/gL  
 Breaking capacity: 120 kA AC  
 Operating frequency: 45-62 Hz

## Product selection



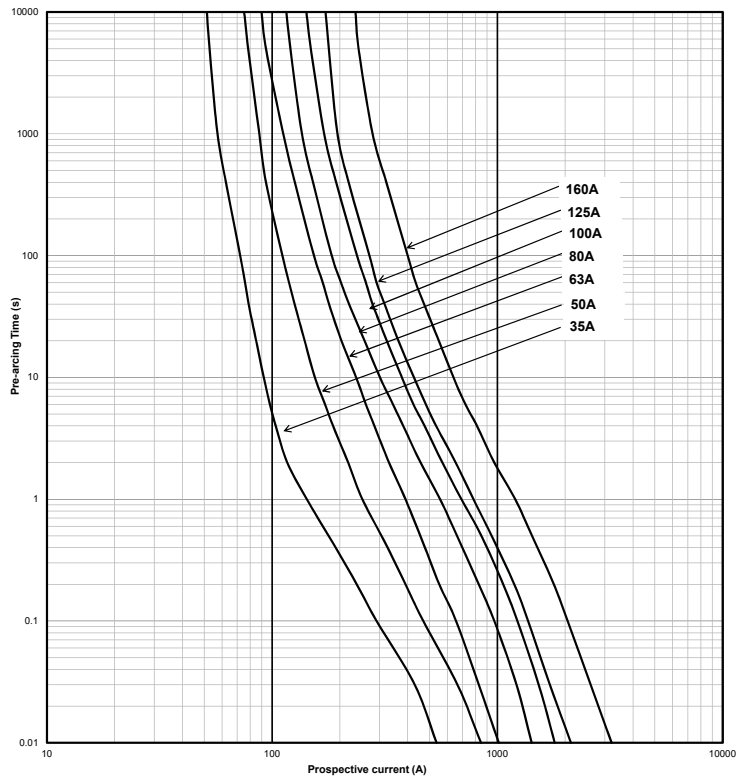
| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        | Pack quantity | Compatible fuse bases |             |
|------|---------------|----------------------|----------------------------------------|---------------|-----------------------|-------------|
|      |               |                      | Voltage conducting metal gripping lugs |               | Single-pole           | Triple-pole |
| 00   | 500 V a.c.    | 35                   | 35NHG00BWP                             | 3             | SD00-D                | TD00-D      |
| 00   | 500 V a.c.    | 50                   | 50NHG00BWP                             | 3             | SD00-D                | TD00-D      |
| 00   | 500 V a.c.    | 63                   | 63NHG00BWP                             | 3             | SD00-D                | TD00-D      |
| 00   | 500 V a.c.    | 80                   | 80NHG00BWP                             | 3             | SD00-D                | TD00-D      |
| 00   | 500 V a.c.    | 100                  | 100NHG00BWP                            | 3             | SD00-D                | TD00-D      |
| 00   | 500 V a.c.    | 125                  | 125NHG00BWP                            | 3             | SD00-D                | TD00-D      |
| 00   | 500 V a.c.    | 160                  | 160NHG00BWP                            | 3             | SD00-D                | TD00-D      |
| 2    | 500 V a.c.    | 63                   | 63NHG2BWP                              | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 80                   | 80NHG2BWP                              | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 100                  | 100NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 125                  | 125NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 160                  | 160NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 200                  | 200NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 250                  | 250NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 315                  | 315NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 355                  | 355NHG2BWP                             | 3             | SD2-D                 | TD2-D       |
| 2    | 500 V a.c.    | 400                  | 400NHG2BWP                             | 3             | SD2-D                 | TD2-D       |

# NH Fuse links

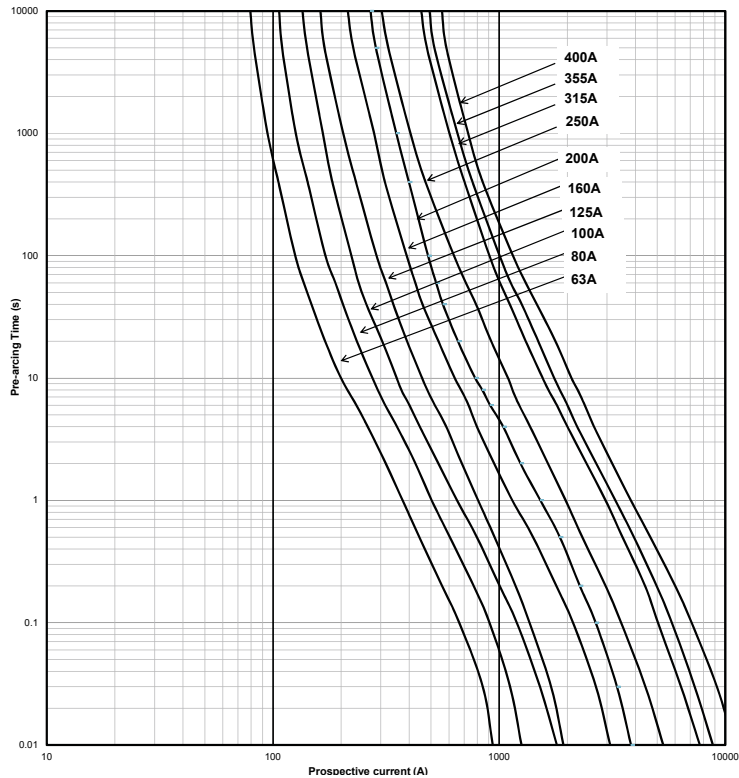
500 V a.c., NH Weather resistant, class gG/gL, 35 to 400 Amps, sizes 00 and 2 fuse links

## Time-current curves

### Size 00



### Size 2



Data sheet: [134001](#)

## 690 V a.c., class gG/gL, 2 to 800 Amps, sizes 000 to 4 NH fuse links

### Specifications

#### Description

A square bodied range of industrial fuse links for a wide variety of applications.

#### Standard/agency information

IEC 60269-1 and 2, DIN 43620 part 1 and 3

### Technical data

Sizes: 000 to 4  
 Rated voltage: 690 V a.c.  
 Rated current: 2 to 800 A  
 Operating class: gG/gL  
 Breaking capacity: 120 kA AC  
 Operating frequency: 45-62 Hz

### Product selection



| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        | Pack quantity | Compatible fuse bases |
|------|---------------|----------------------|----------------------------------------|---------------|-----------------------|
|      |               |                      | Voltage conducting metal gripping lugs |               |                       |
| 000  | 690 V a.c.    | 2                    | 2NHG000B-690                           | 3             | SD00-D                |
| 000  | 690 V a.c.    | 4                    | 4NHG000B-690                           | 3             | SD00-D                |
| 000  | 690 V a.c.    | 6                    | 6NHG000B-690                           | 3             | SD00-D                |
| 000  | 690 V a.c.    | 10                   | 10NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 16                   | 16NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 20                   | 20NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 25                   | 25NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 32                   | 32NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 35                   | 35NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 40                   | 40NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 50                   | 50NHG000B-690                          | 3             | SD00-D                |
| 000  | 690 V a.c.    | 63                   | 63NHG000B-690                          | 3             | SD00-D                |
| 00   | 690 V a.c.    | 50                   | 50NHG00B-690                           | 3             | SD00-D                |
| 00   | 690 V a.c.    | 63                   | 63NHG00B-690                           | 3             | SD00-D                |
| 00   | 690 V a.c.    | 80                   | 80NHG00B-690                           | 3             | SD00-D                |
| 00   | 690 V a.c.    | 100                  | 100NHG00B-690                          | 3             | SD00-D                |
| 00   | 690 V a.c.    | 125                  | 125NHG00B-690                          | 3             | SD00-D                |
| 00   | 660 V a.c.    | 160*                 | 160NHG00B-660                          | 3             | SD00-D                |
| 1    | 690 V a.c.    | 50                   | 50NHG1B-690                            | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 63                   | 63NHG1B-690                            | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 80                   | 80NHG1B-690                            | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 100                  | 100NHG1B-690                           | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 125                  | 125NHG1B-690                           | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 160                  | 160NHG1B-690                           | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 200                  | 200NHG1B-690                           | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 224                  | 224NHG1B-690                           | 3             | SD1-D                 |
| 1    | 690 V a.c.    | 250                  | 250NHG1B-690                           | 3             | SD1-D                 |
| 2    | 690 V a.c.    | 200                  | 200NHG2B-690                           | 3             | SD2-D                 |
| 2    | 690 V a.c.    | 224                  | 224NHG2B-690                           | 3             | SD2-D                 |
| 2    | 690 V a.c.    | 250                  | 250NHG2B-690                           | 3             | SD2-D                 |
| 2    | 690 V a.c.    | 315                  | 315NHG2B-690                           | 3             | SD2-D                 |
| 3    | 690 V a.c.    | 250                  | 250NHG3B-690                           | 3             | SD3-D                 |
| 3    | 690 V a.c.    | 315                  | 315NHG3B-690                           | 3             | SD3-D                 |
| 3    | 690 V a.c.    | 355                  | 355NHG3B-690                           | 3             | SD3-D                 |
| 3    | 690 V a.c.    | 400                  | 400NHG3B-690                           | 3             | SD3-D                 |
| 3    | 690 V a.c.    | 425                  | 425NHG3B-690                           | 3             | SD3-D                 |
| 3    | 690 V a.c.    | 500                  | 500NHG3B-690                           | 3             | SD3-D                 |
| 4**  | 690 V a.c.    | 630                  | 630NHG4B-690                           | 1             | SD4-S                 |
| 4**  | 690 V a.c.    | 800                  | 800NHG4B-690                           | 1             | SD4-S                 |

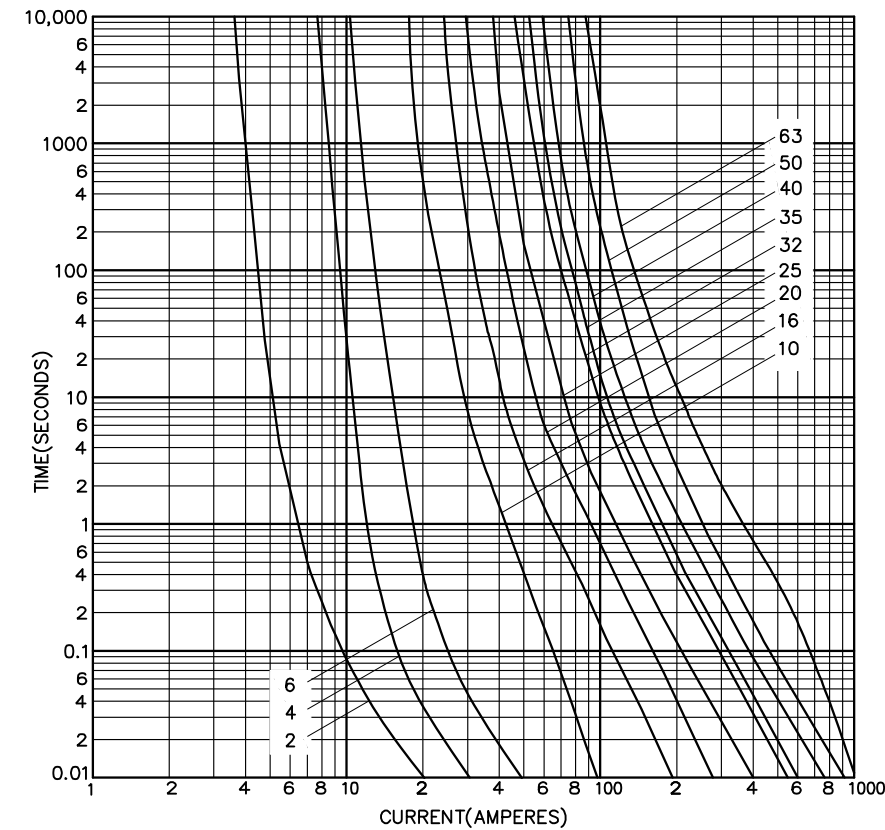
\* Size 00 160A is rated at 660 V a.c. \*\*Size 4 is a fuse link with single indication fuse link with slotted end tags Please contact us should you wish to order 500 Volts size 4  
 buletechnical@eaton.com or 00 44 (0) 1509 882 699

# NH Fuse links

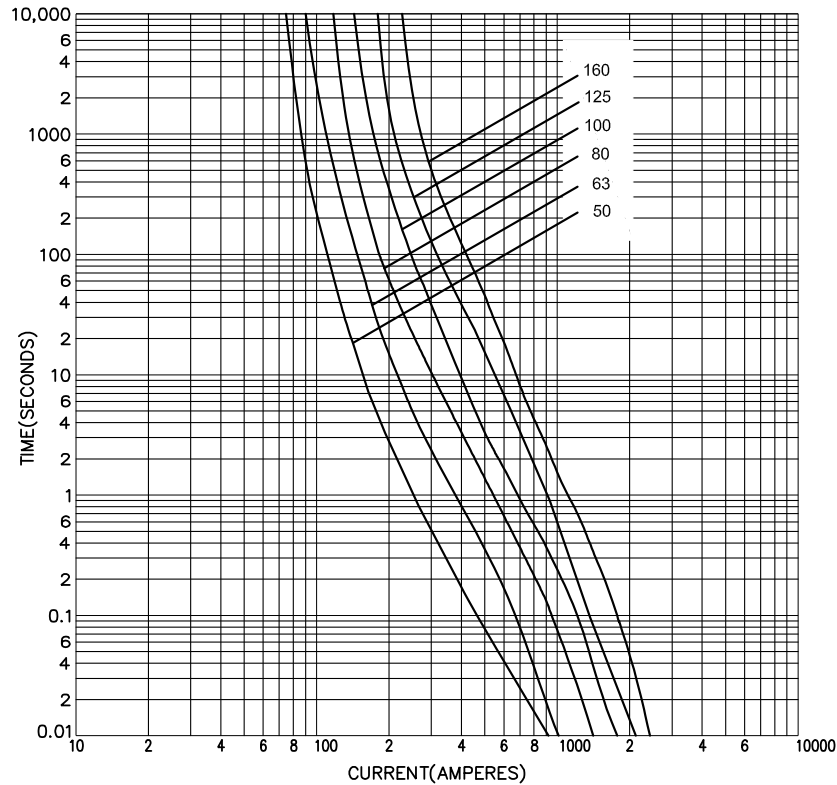
690 V a.c., class gG/gL, 2 to 800 Amps, sizes 000 to 4 NH fuse links

## Time-current curves

### Size 000



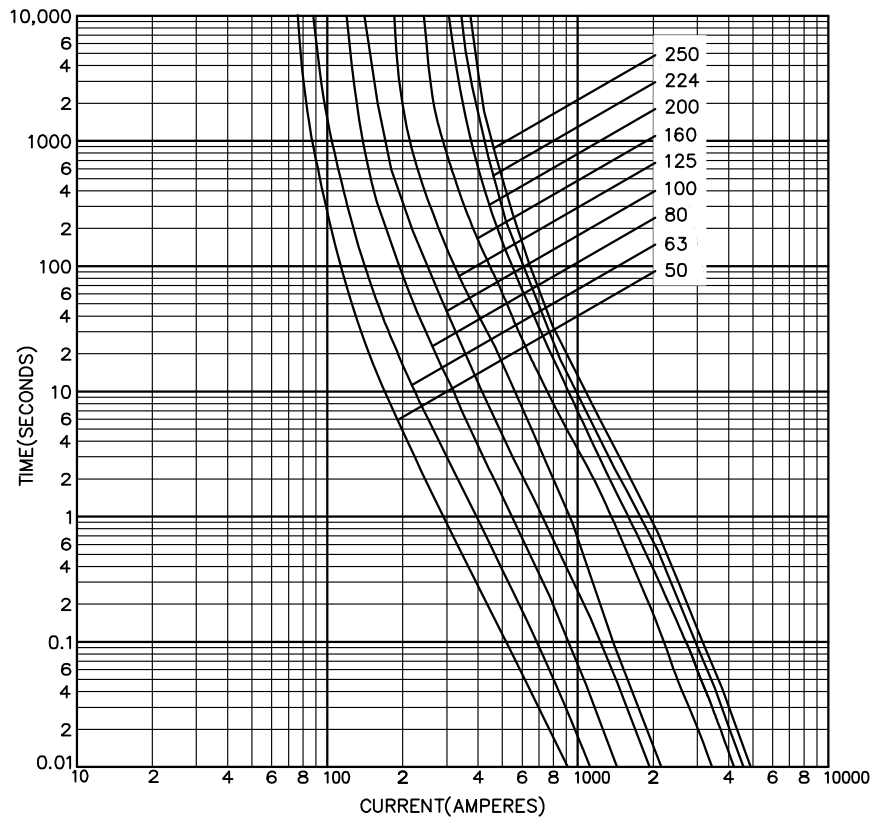
### Size 00



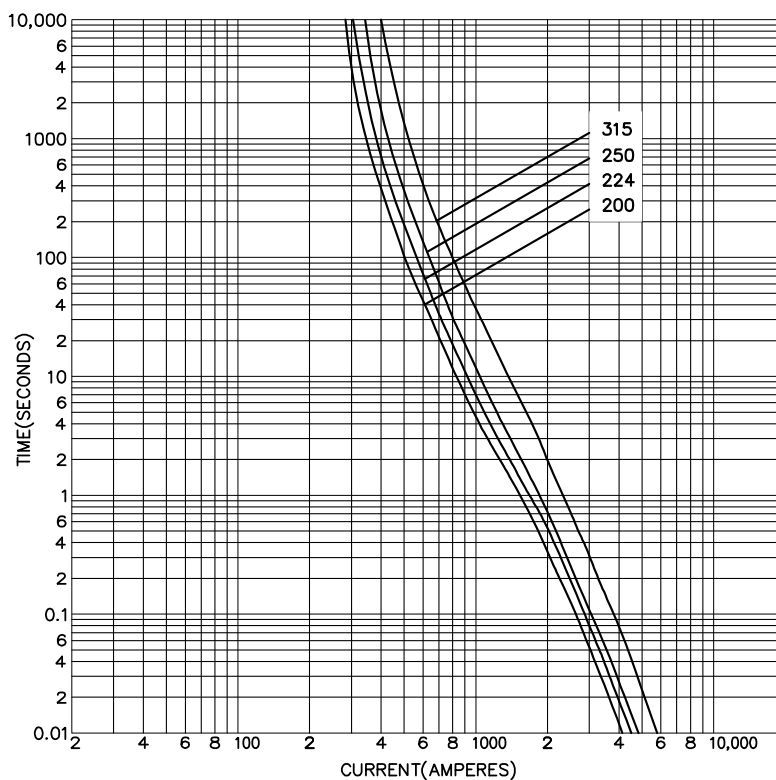
[Data sheet: 720109](#)

## Time-current curves

### Size 1



### Size 2



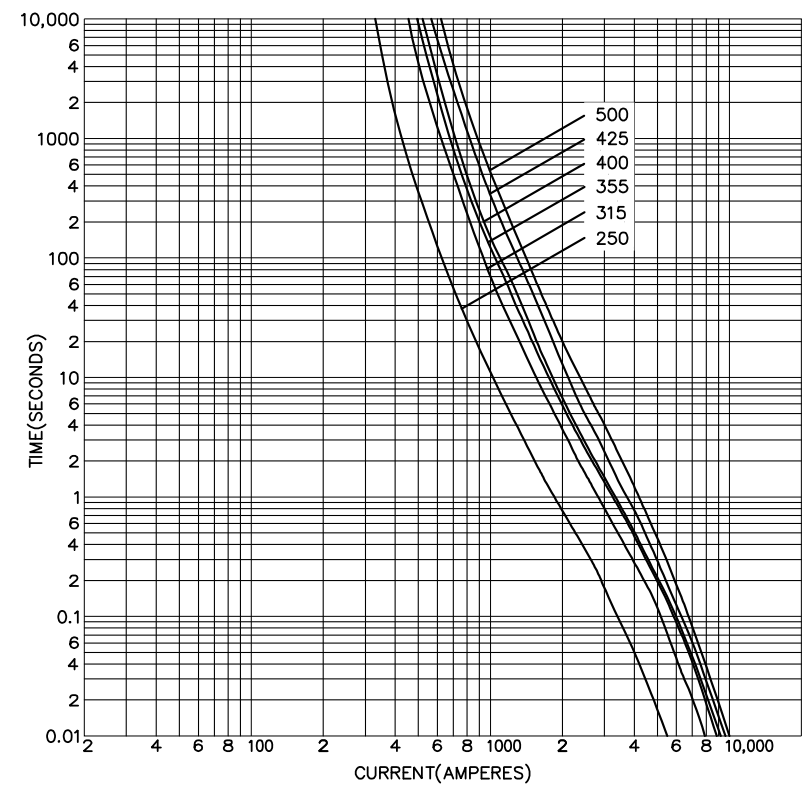
[Data sheet: 720109](#)

# NH Fuse links

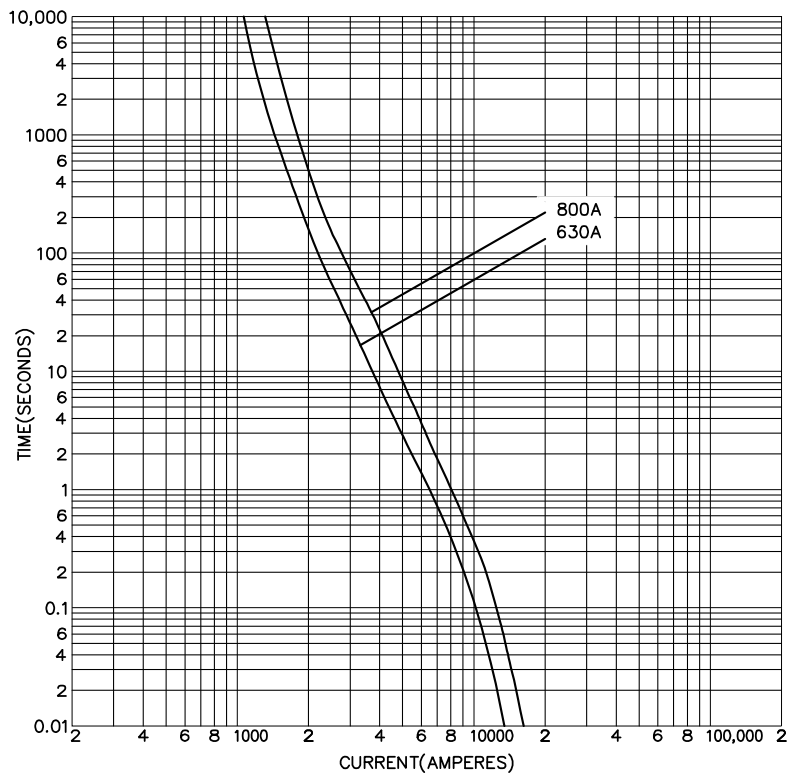
690 V a.c., class gG/gL, 2 to 800 Amps, sizes 000 to 4 NH fuse links

## Time-current curves

### Size 3



### Size 4



[Data sheet: 720109](#)

## 800 V a.c., class gG, 32 to 250 Amps, sizes 1 and 2 NH fuse links

### Specifications

#### Description

Eaton's Bussmann Series NH gG fuse links are designed to ensure cable protection up to 800 V a.c. They are also ideally suited for the cable protection on the AC side of solar string inverters with outputs up to 800 V a.c.

#### Technical data

Sizes DIN Style NH 1 and 2  
 Rated voltage: 800 V a.c.  
 Rated current: 32 to 250 A  
 Operating class: gG  
 Breaking capacity: 80 kA AC  
 Operating frequency: 45-62 Hz

### Standard/agency information

IEC 60269-2

### Product selection



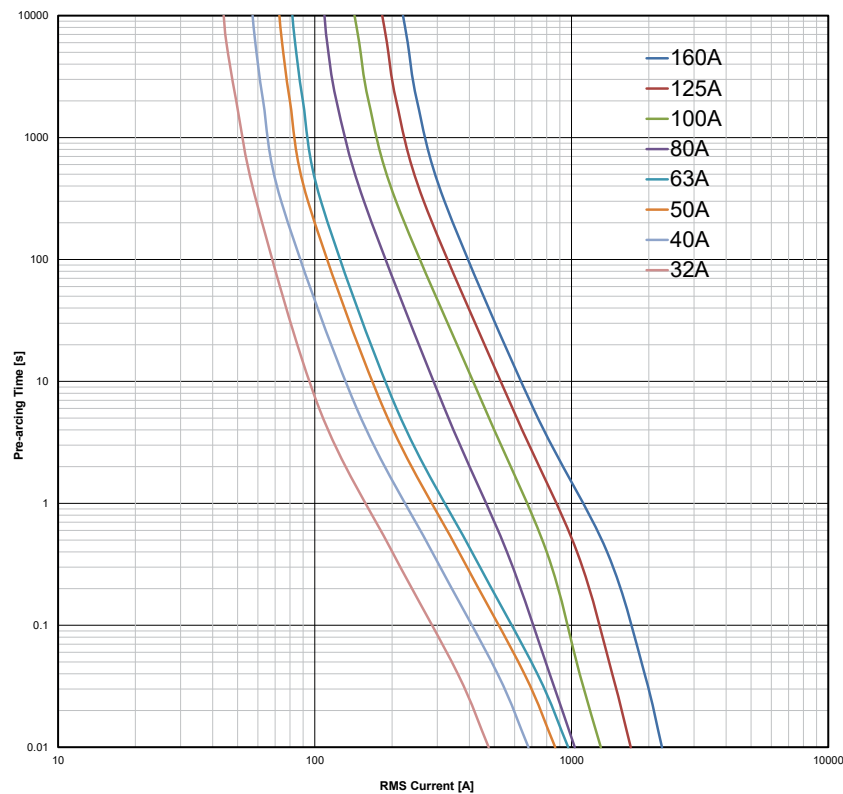
| Size | Rated voltage | Rated current (Amps) | Catalog numbers                        | Pack quantity | Compatible fuse holder |                |
|------|---------------|----------------------|----------------------------------------|---------------|------------------------|----------------|
|      |               |                      | Voltage conducting metal gripping lugs |               | Article number         | Catalog number |
| 1    | 800 V a.c.    | 32                   | 32NHG1B-800                            | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 40                   | 40NHG1B-800                            | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 50                   | 50NHG1B-800                            | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 63                   | 63NHG1B-800                            | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 80                   | 80NHG1B-800                            | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 100                  | 100NHG1B-800                           | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 125                  | 125NHG1B-800                           | 3             | 179756                 | HW-SLS-1       |
| 1    | 800 V a.c.    | 160                  | 160NHG1B-800                           | 3             | 179756                 | HW-SLS-1       |
| 2    | 800 V a.c.    | 160                  | 160NHG2B-800                           | 3             | 179757                 | HW-SLS-2       |
| 2    | 800 V a.c.    | 200                  | 200NHG2B-800                           | 3             | 179757                 | HW-SLS-2       |
| 2    | 800 V a.c.    | 250                  | 250NHG2B-800                           | 3             | 179757                 | HW-SLS-2       |

# NH Fuse links

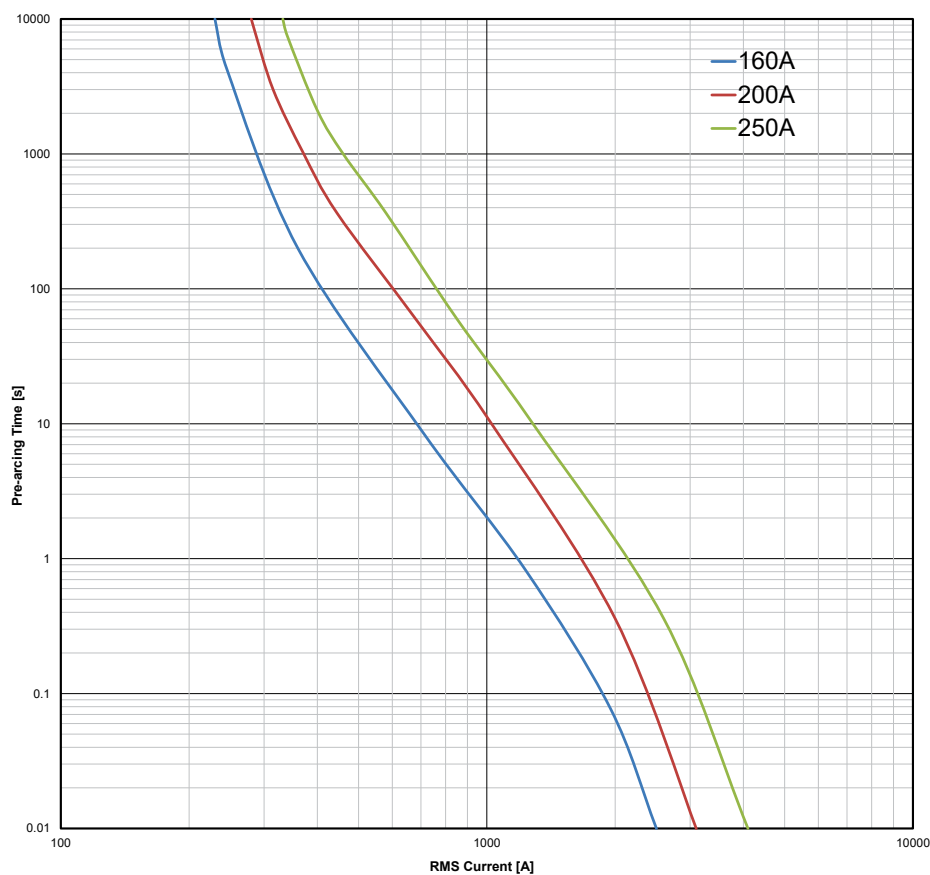
800 V a.c., class gG, 32 to 250 Amps, sizes 1 and 2 NH fuse links

## Time-current curves

### Size 1



### Size 2



Data sheet: [TD134002EN](#)

## 500 and 690 V a.c., class aM, 6 to 500 Amps, sizes 000 to 3 NH fuse links

### Specifications

#### Description

A square bodied range of industrial fuse links for a wide variety of applications.

#### Standard/agency information

IEC 60269-1 and 2, DIN 43620 part 1 and 3

### Technical data

Sizes 000 to 3  
 Rated voltage: 500 and 690 V a.c.  
 Rated current: 6 to 500 A  
 Operating class: aM  
 Breaking capacity: 120 kA AC  
 Operating frequency: 45-62 Hz

### Product selection



| Size | Rated current (Amps) | 500 V a.c. class aM            | 690 V a.c. class aM            | Pack quantity | Compatible fuse bases |
|------|----------------------|--------------------------------|--------------------------------|---------------|-----------------------|
|      |                      | Conducting metal gripping lugs | Conducting metal gripping lugs |               |                       |
| 000  | 6                    | 6NHM000B                       | 6NHM000B-690                   | 3             | SD00-D                |
| 000  | 10                   | 10NHM000B                      | 10NHM000B-690                  | 3             | SD00-D                |
| 000  | 16                   | 16NHM000B                      | 16NHM000B-690                  | 3             | SD00-D                |
| 000  | 20                   | 20NHM000B                      | 20NHM000B-690                  | 3             | SD00-D                |
| 000  | 25                   | 25NHM000B                      | 25NHM000B-690                  | 3             | SD00-D                |
| 000  | 32                   | 32NHM000B                      | 32NHM000B-690                  | 3             | SD00-D                |
| 000  | 35                   | 35NHM000B                      | 35NHM000B-690                  | 3             | SD00-D                |
| 000  | 40                   | 40NHM000B                      | 40NHM000B-690                  | 3             | SD00-D                |
| 000  | 50                   | 50NHM000B                      | 50NHM000B-690                  | 3             | SD00-D                |
| 00   | 63                   | 63NHM00B                       | 63NHM00B-690                   | 3             | SD00-D                |
| 00   | 80                   | 80NHM00B                       | 80NHM00B-690                   | 3             | SD00-D                |
| 00   | 100                  | 100NHM00B                      | 100NHM00B-690                  | 3             | SD00-D                |
| 1    | 50                   | 50NHM1B                        | 50NHM1B-690                    | 3             | SD1-D                 |
| 1    | 63                   | 63NHM1B                        | 63NHM1B-690                    | 3             | SD1-D                 |
| 1    | 80                   | 80NHM1B                        | 80NHM1B-690                    | 3             | SD1-D                 |
| 1    | 100                  | 100NHM1B                       | 100NHM1B-690                   | 3             | SD1-D                 |
| 1    | 125                  | 125NHM1B                       | 125NHM1B-690                   | 3             | SD1-D                 |
| 1    | 160                  | 160NHM1B                       | 160NHM1B-690                   | 3             | SD1-D                 |
| 2    | 125                  | 125NHM2B                       | 125NHM2B-690                   | 3             | SD2-D                 |
| 2    | 160                  | 160NHM2B                       | 160NHM2B-690                   | 3             | SD2-D                 |
| 2    | 200                  | 200NHM2B                       | 200NHM2B-690                   | 3             | SD2-D                 |
| 2    | 224                  | 224NHM2B                       | 224NHM2B-690                   | 3             | SD2-D                 |
| 2    | 250                  | 250NHM2B                       | 250NHM2B-690                   | 3             | SD2-D                 |
| 2    | 315*                 | 315NHM2B*                      | 315NHM2B-690*                  | 3             | SD2-D                 |
| 2    | 355*                 | 355NHM2B*                      | 355NHM2B-690*                  | 3             | SD2-D                 |
| 3    | 315                  | 315NHM3B                       | 315NHM3B-690                   | 3             | SD3-D                 |
| 3    | 355                  | 355NHM3B                       | 355NHM3B-690                   | 3             | SD3-D                 |
| 3    | 400                  | 400NHM3B                       | 400NHM3B-690                   | 3             | SD3-D                 |
| 3    | 500                  | 500NHM3B                       | 500NHM3B-690                   | 3             | SD3-D                 |

\* Single indication

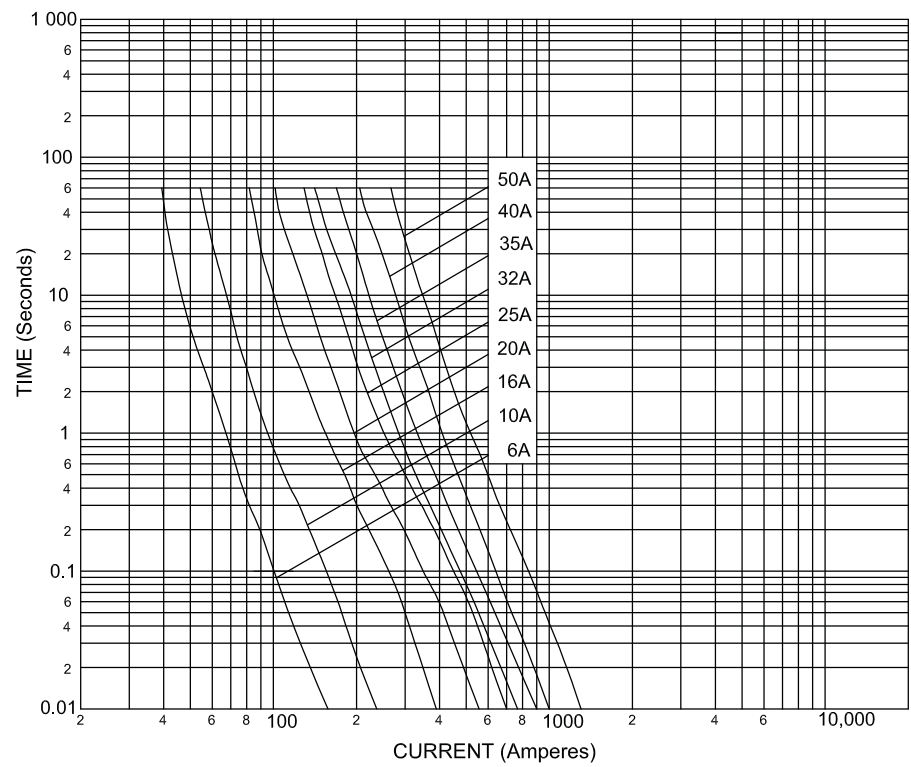
[Data sheet: 10165](#)

# NH Fuse links

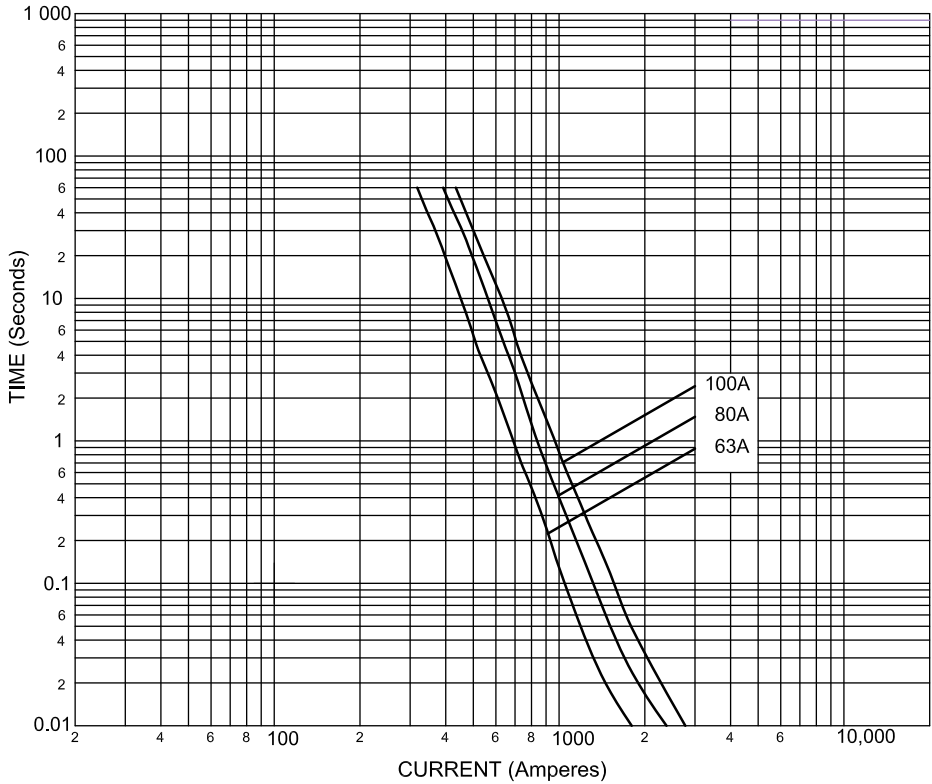
500 and 690 V a.c., class aM, 6 to 500 Amps, sizes 000 to 3 NH fuse links

## Time-current curves

### Size 000



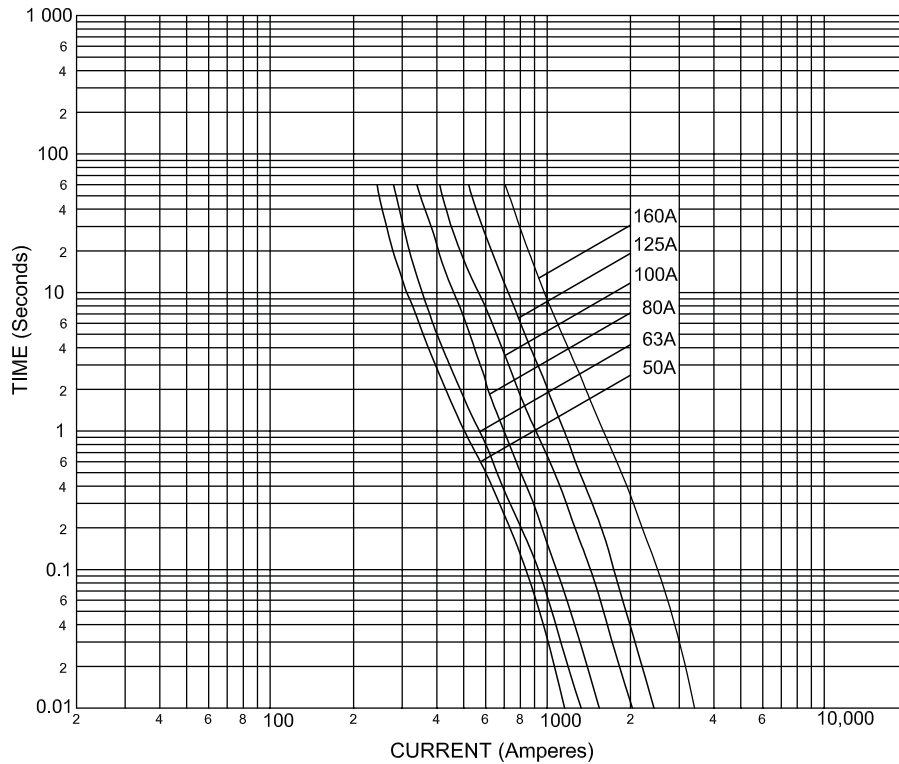
### Size 00



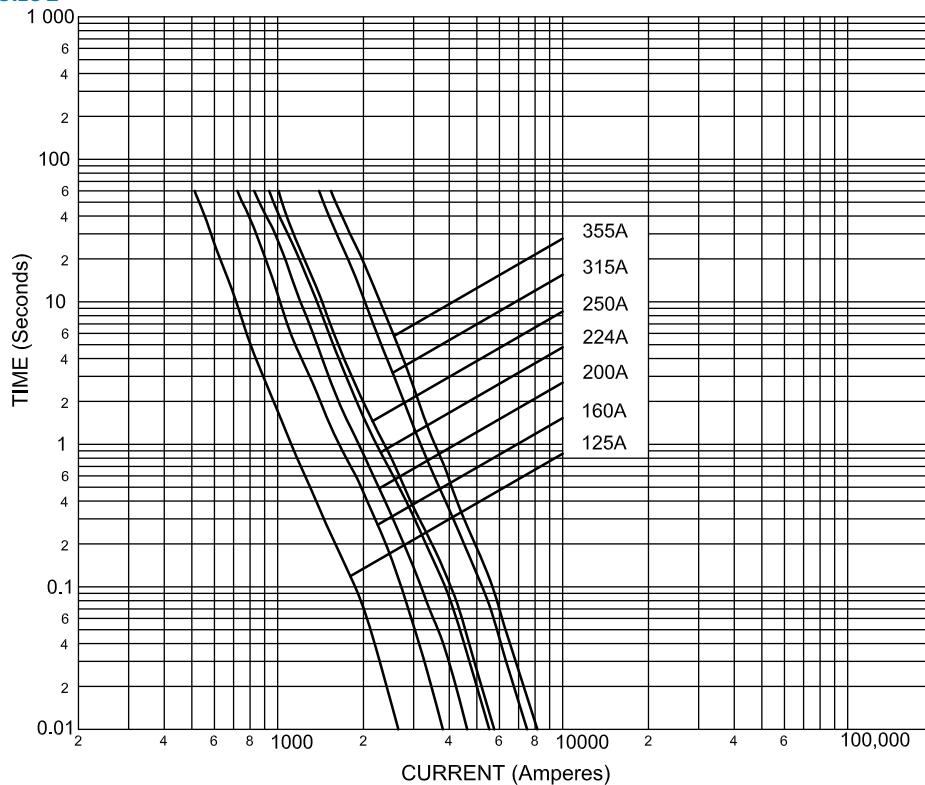
[Data sheet: 10165](#)

## Time-current curves

### Size 1



### Size 2



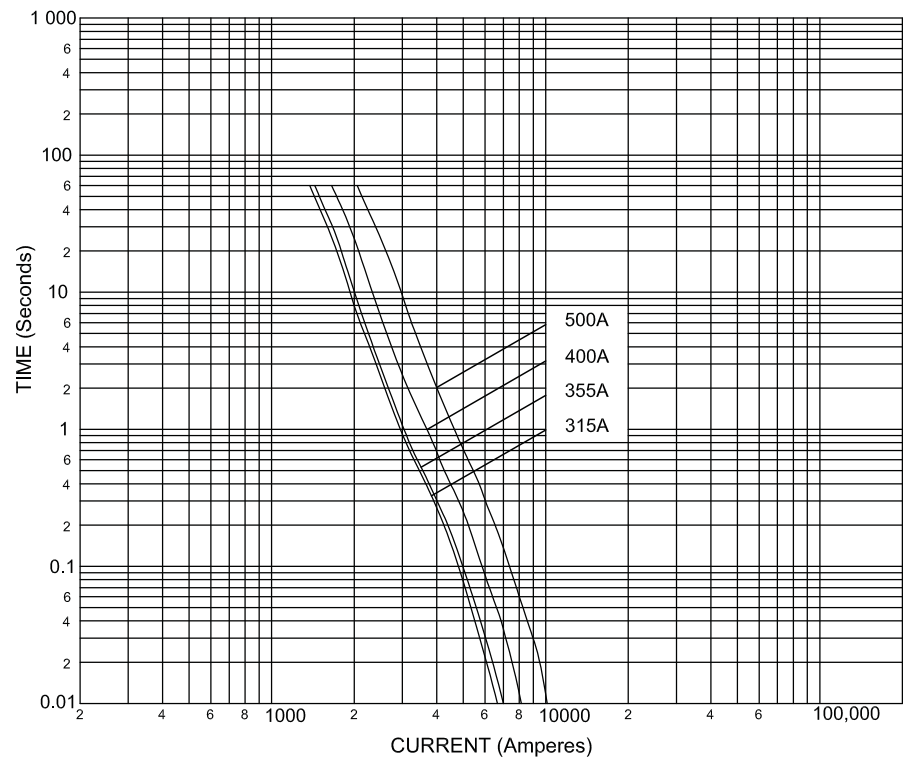
Data sheet: [10165](#)

# NH Fuse links

500 and 690 V a.c., class aM, 6 to 500 Amps, sizes 000 to 3 NH fuse links

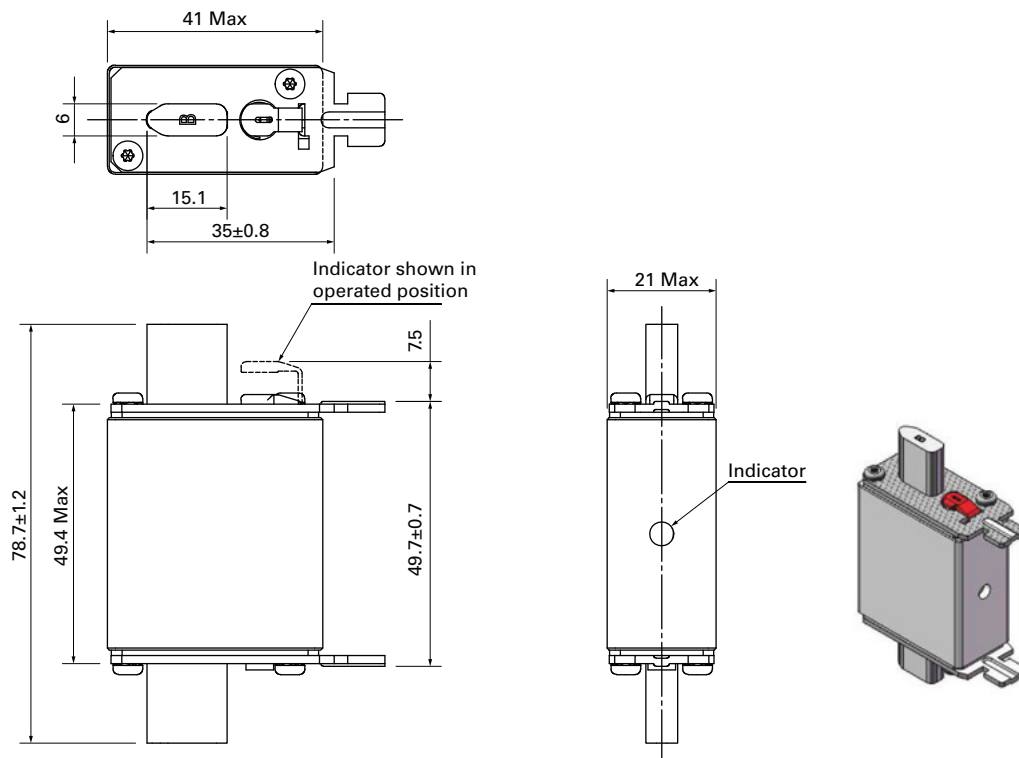
## Time-current curves

### Size 3

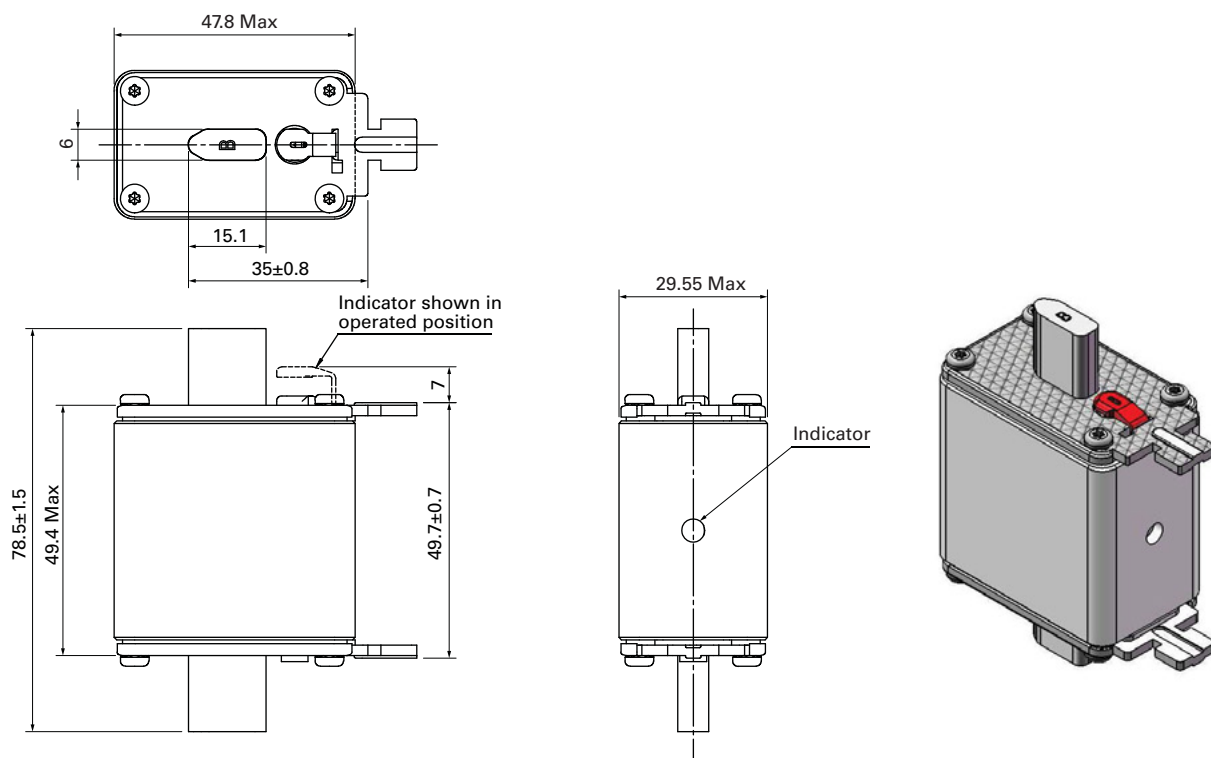


### Dimensions

#### Size 000



#### Size 00

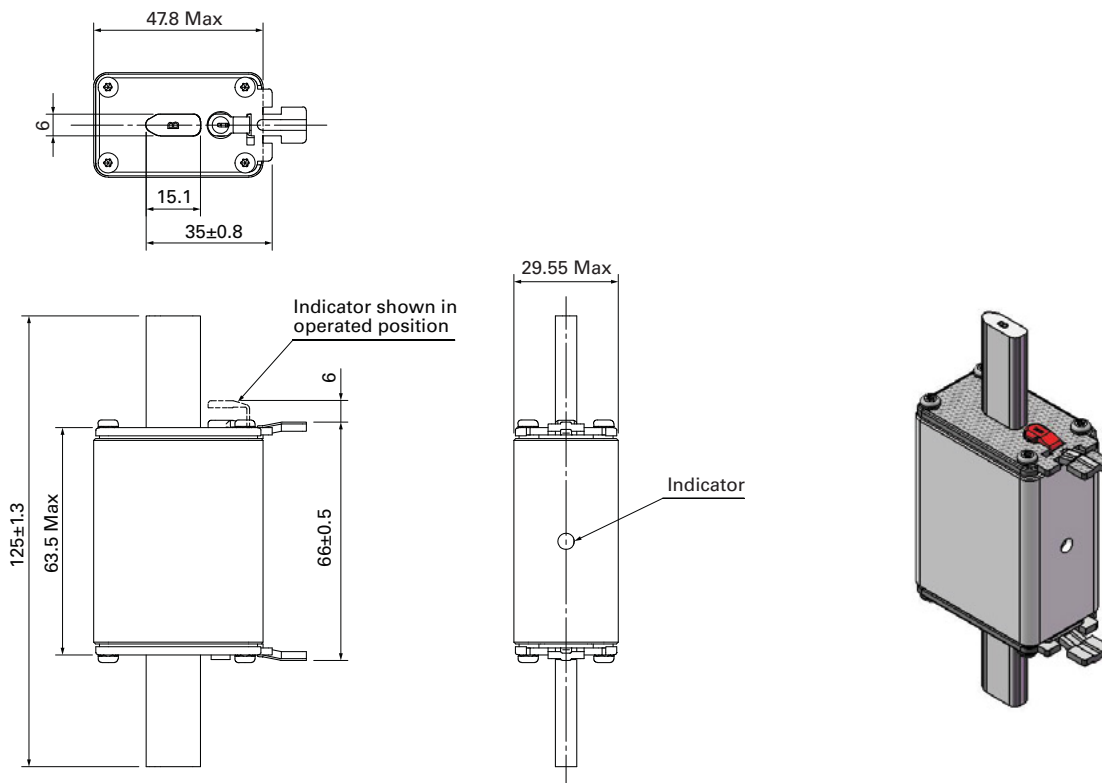


# NH Fuse links

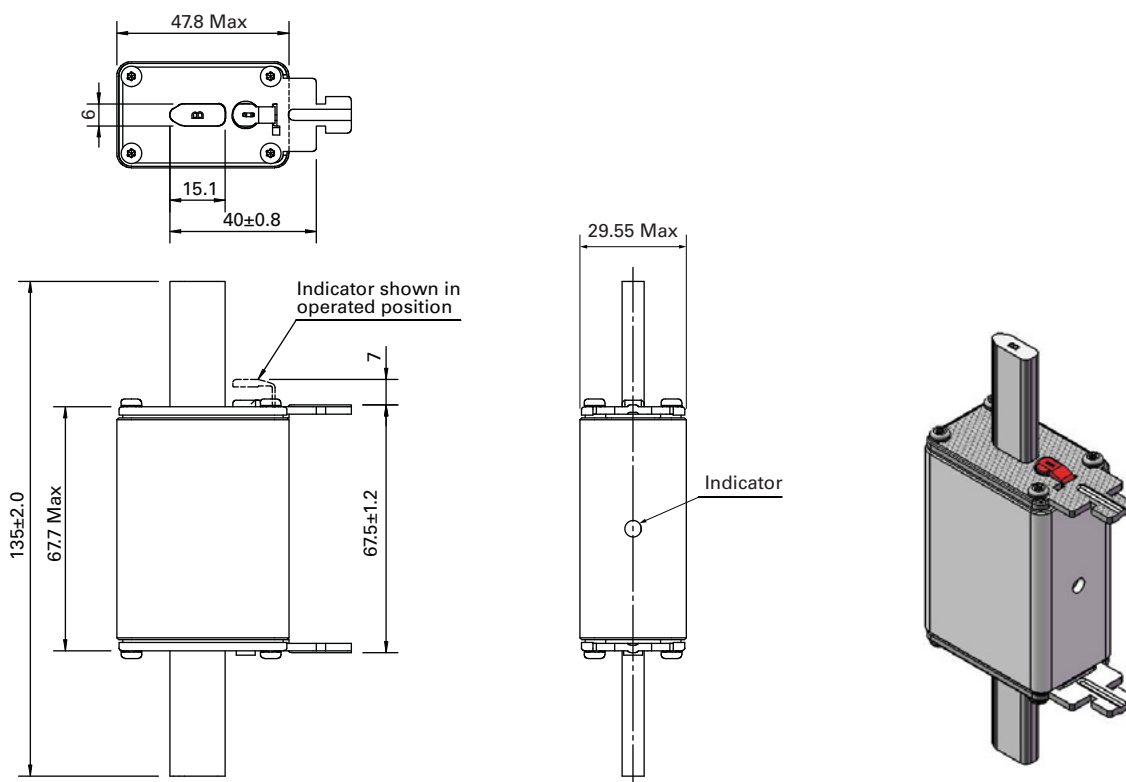
## Dimensions

### Dimensions

#### Size 0

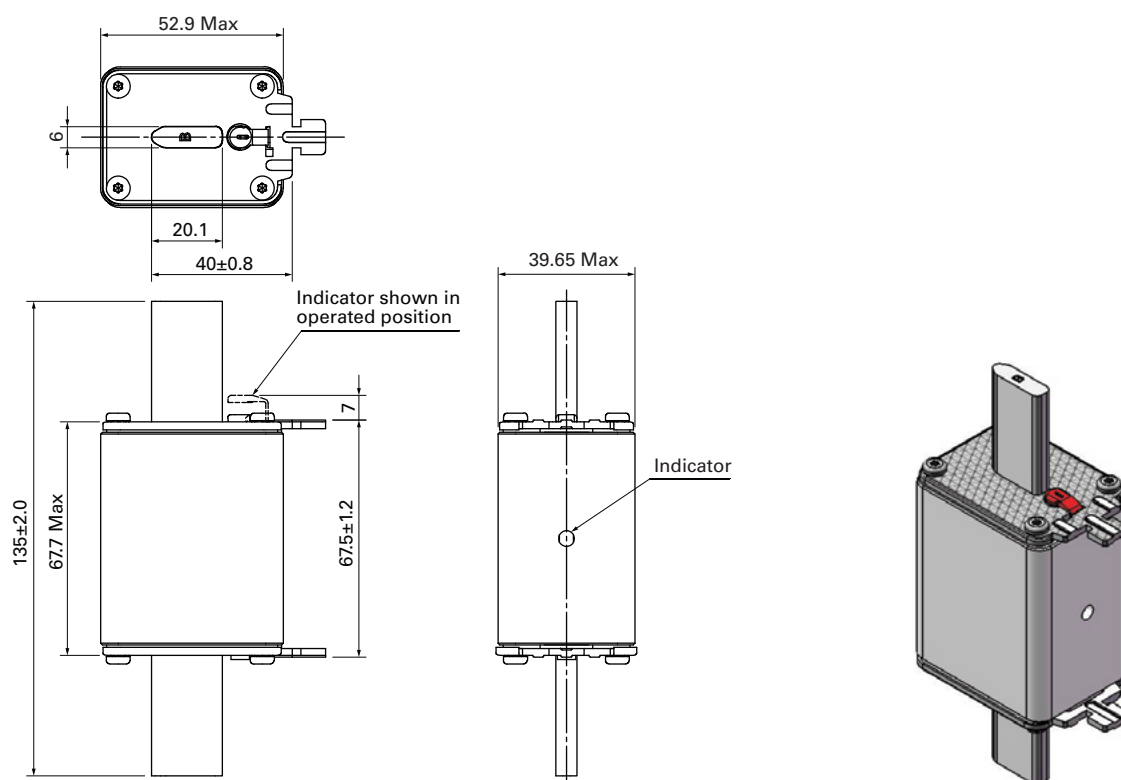


#### Size 01

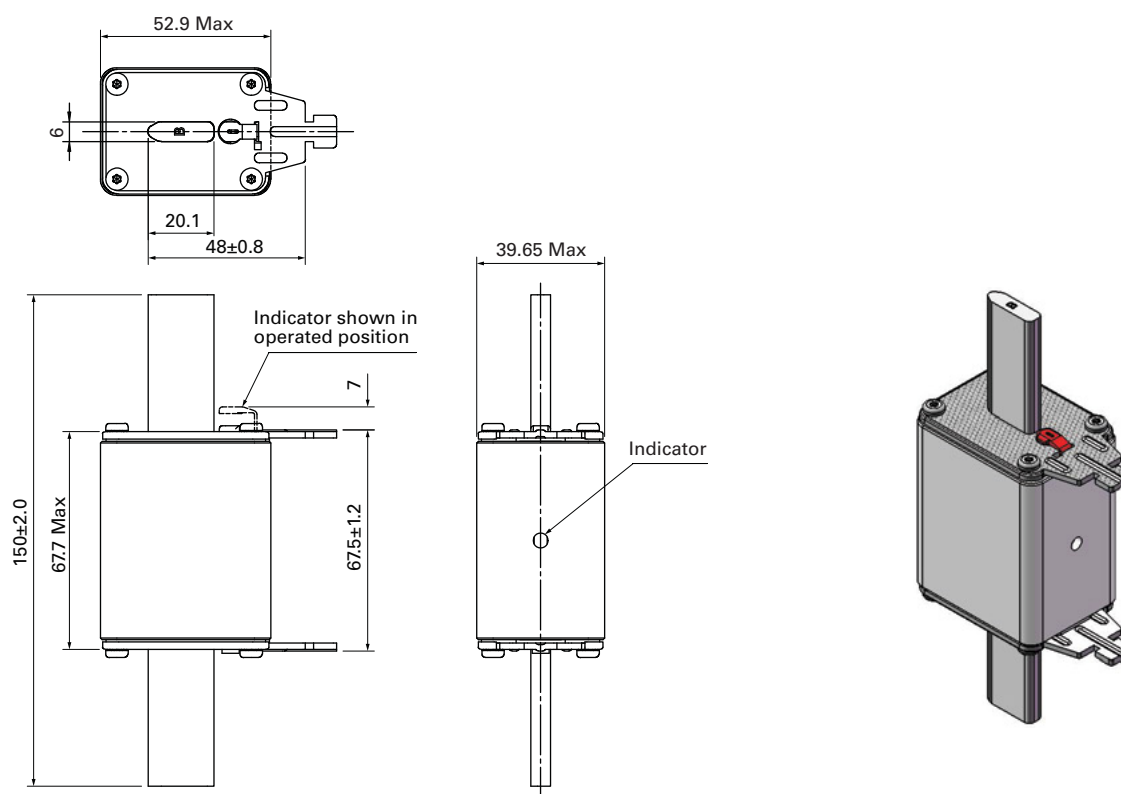


### Dimensions

#### Size 1



#### Size 02

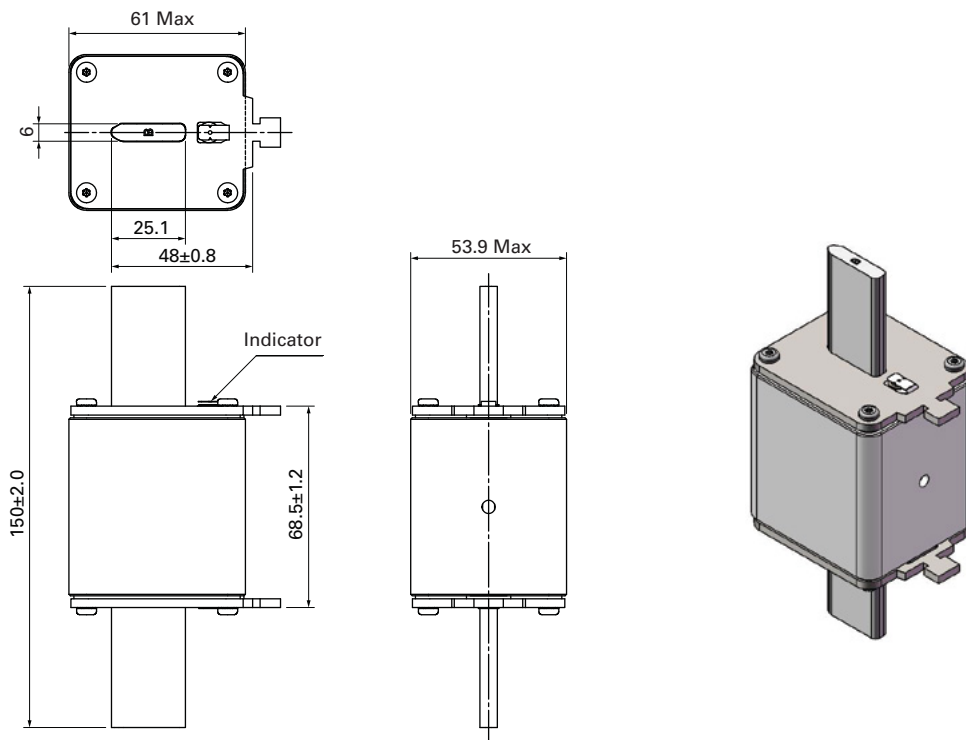


# NH Fuse links

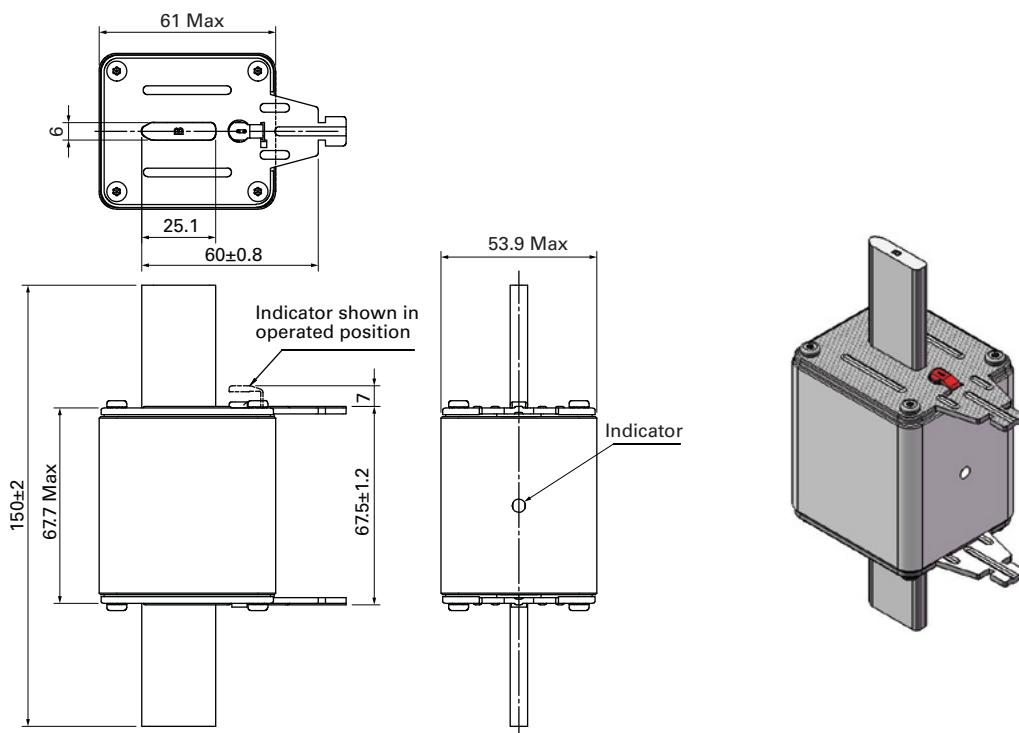
## Dimensions

### Dimensions

#### Size 2

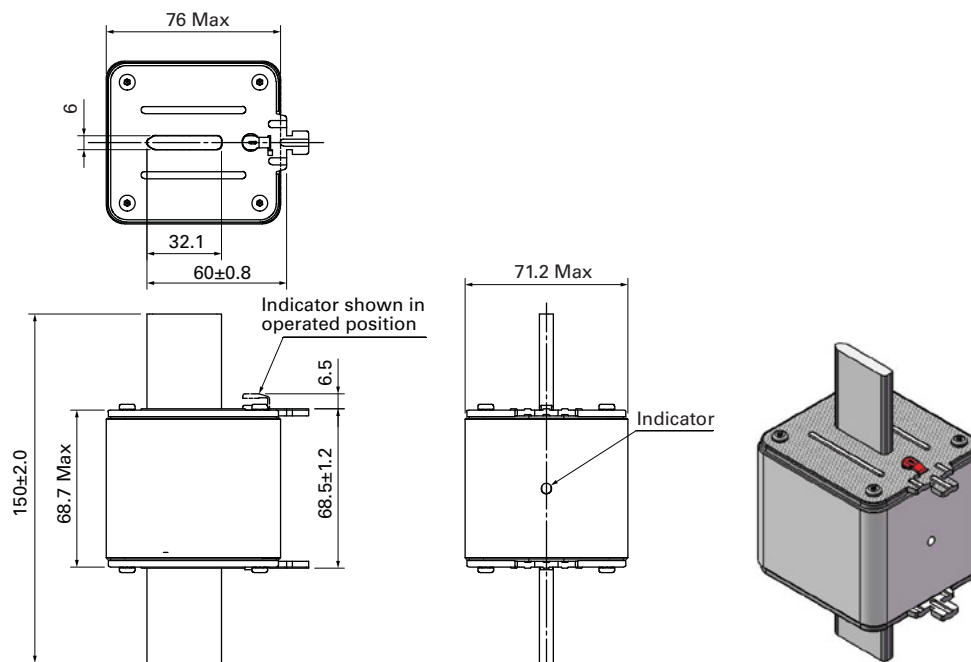


#### Size 03



### Dimensions

#### Size 3



#### Size 4

Please contact [buletechnical@eaton.com](mailto:buletechnical@eaton.com) for size 4 dimensions

# NH Fuse bases and accessories

## SD and TD fuse bases and accessories

## SD and TD fuse bases and accessories

### Specifications

#### Description

NH fuse bases with thermoplastic bodies, DIN rail and/or screw mounting (size 4 screw mounting only). Range of accessories including microswitches (for remote fuse link operation), phase barriers, IP20 finger-safe protection kits and neutral links available.

#### Technical data

Rated voltage: 690 V a.c.

Rated current: 160 to 1600 A

Rated for fuse links with breaking capacity: 120 kA a.c.

#### Standard/agency information

IEC 60269-1 and 2, VDE 0636-1 and 2

#### Product selection

| Catalog numbers |        |                      |                             |                                                            |                     |                        |               |                                       |
|-----------------|--------|----------------------|-----------------------------|------------------------------------------------------------|---------------------|------------------------|---------------|---------------------------------------|
| Size            | Poles  | Rated current (Amps) | DIN-Rail and screw mounting | DIN-Rail and screw mounting without anti-rotation terminal | Screw mounting only | Screw mounting TIN CCC | Pack quantity | Compatible fuse links size            |
| 00              | 1-pole | 160                  | SD00-D                      | N/A                                                        | SD00-S              | N/A                    | 3             | 400/500/690 V NH gG and aM fuse links |
| 00              | 3-pole | 160                  | TD00-D                      | N/A                                                        | N/A                 | N/A                    | 1             |                                       |
| 00              | 3-pole | 160                  | TD00-DI*                    | N/A                                                        | N/A                 | N/A                    | 1             |                                       |
| 1               | 1-pole | 250                  | SD1-D                       | SD1-DA                                                     | SD1-S               | SD1-STC                | 3             |                                       |
| 1               | 3-pole | 250                  | TD1-D                       | N/A                                                        | N/A                 | N/A                    | 1             |                                       |
| 2               | 1-pole | 400                  | SD2-D                       | SD2-DA                                                     | SD2-S               | SD2-STC                | 3             |                                       |
| 2               | 1-pole | 400                  | SD2-DD**                    | N/A                                                        | N/A                 | N/A                    | 3             |                                       |
| 2               | 3-pole | 400                  | TD2-D                       | N/A                                                        | N/A                 | N/A                    | 1             |                                       |
| 2               | 3-pole | 400                  | TD2-DD**                    | N/A                                                        | N/A                 | N/A                    | 1             |                                       |
| 3               | 1-pole | 630                  | SD3-D**                     | SD3-DA                                                     | SD3-S               | N/A                    | 3             |                                       |
| 3               | 3-pole | 630                  | TD3-D**                     | N/A                                                        | N/A                 | N/A                    | 1             |                                       |
| 4               | 1-pole | 1250                 | N/A                         | N/A                                                        | SD4-S               | N/A                    | 1             |                                       |
| 4               | 1-pole | 1600                 | N/A                         | N/A                                                        | SD4-S1600           | N/A                    | 1             |                                       |

\* 3-pole integral base moulding.

\*\* Double fuse contact clips.



**SD-D Single pole**  
DIN-Rail and screw mounting



**SD-S Single pole screw**  
mounting only



**TD-D Triple pole DIN-Rail**  
and screw mounting only

### SD and TD fuse bases and accessories

#### Technical data

| Fuse base Catalog numbers                              |          | SD00-D<br>TD00-D<br>TD00-DI | SD1-D<br>SD1-DA<br>SD1-STC<br>TD1-D | SD2-D<br>SD2-DA<br>SD2-STC<br>TD2-D | SD3-D<br>SD3-DA<br>TD3-D | SD4-S | SD4-S1600 |
|--------------------------------------------------------|----------|-----------------------------|-------------------------------------|-------------------------------------|--------------------------|-------|-----------|
| Base                                                   |          | Glass filled PBT            |                                     |                                     |                          |       |           |
| Contacts                                               |          | Silver plated copper        |                                     |                                     |                          |       |           |
| Screw, nuts and washers                                |          | Zinc clear plated steel     |                                     |                                     |                          |       |           |
| Derating temperature factors for maximum Rated current | ≤ 35°C   | 1                           | 1                                   | 1                                   | 1                        | 1     | 1         |
|                                                        | 40°C     | 0.95                        | 0.95                                | 0.95                                | 0.95                     | 0.95  | 0.95      |
|                                                        | 50°C     | 0.85                        | 0.85                                | 0.85                                | 0.85                     | 0.85  | 0.85      |
| Maximum power acceptance                               |          | 12W                         | 32W                                 | 45W                                 | 60W                      | 110W  | 145W      |
| Degree of protection with covers fitted                |          | IP20                        | IP20                                | IP20                                | IP20                     | -     | -         |
| Terminal screw                                         |          | M8                          | M10                                 | M10                                 | M12                      | M16   | M16       |
| Maximum tightening torque terminal screw               |          | 10N•m                       | 32N•m                               | 32N•m                               | 32N•m                    | 56N•m | 56N•m     |
| Fixing                                                 | DIN-Rail | ✓                           | ✓                                   | ✓                                   | ✓                        | ×     | ×         |
|                                                        | Screw    | ✓                           | ✓                                   | ✓                                   | ✓                        | ✓     | ✓         |
| With microswitch 16A/250V                              |          | Fuse operated signal        | ✓                                   | ✓                                   | ✓                        | ×     | ×         |
| Operating temperature range                            |          | -20 to 70°C                 |                                     |                                     |                          |       |           |
| Storage temperature range                              |          | -40 to 80°C                 |                                     |                                     |                          |       |           |

#### Solid links

| Size | Rated current (Amps) | Catalog numbers | Pack quantity |
|------|----------------------|-----------------|---------------|
| NH00 | 160                  | SDL-00          | 3             |
| NH1  | 250                  | SDL-1           | 3             |
| NH2  | 400                  | SDL-2           | 3             |
| NH3  | 630                  | SDL-3           | 3             |



Solid link

#### Fuse extraction handle

| Size   | Rated current (Amps) | Catalog numbers | Pack quantity |
|--------|----------------------|-----------------|---------------|
| NH00-3 | 160 - 630            | FEH             | 1             |



Fuse extraction handle

#### Shroud kit

| Fuse Base | Fuse Size | Rated current (Amps) | Catalog numbers | Description                             |
|-----------|-----------|----------------------|-----------------|-----------------------------------------|
| SD1       | NH1       | 250                  | SD12-SK         | Kit includes 2 shrouds and 1 fuse cover |
| SD2       | NH2       | 400                  | SD12-SK         | Kit includes 2 shrouds and 1 fuse cover |
| SD3       | NH3       | 630                  | SD3-SK          | Kit includes 2 shrouds and 1 fuse cover |



Shroud kit

# NH Fuse bases and accessories

SD and TD fuse bases and accessories

## SD and TD fuse bases and accessories

### Phase barriers

| Size | Rated current (Amps) | Catalog numbers | Pack quantity | Description                          |
|------|----------------------|-----------------|---------------|--------------------------------------|
| NH00 | 160                  | SD00-PB         | 1             | 2-Phase barriers                     |
| NH1  | 250                  | SD12-PB         | 1             | 2-Phase barriers and 2 ganging links |
| NH2  | 400                  | SD12-PB         | 1             | 2-Phase barriers and 2 ganging links |
| NH3  | 630                  | SD3-PB          | 1             | 2-Phase barriers and 2 ganging links |



Phase barrier



Ganging link

### IP Protection kits



| Size | Rated current (Amps) | Catalog numbers | Fuse cover | Shroud | Phase barrier | Ganging link | Integral kit | Description                                                                                            |
|------|----------------------|-----------------|------------|--------|---------------|--------------|--------------|--------------------------------------------------------------------------------------------------------|
| NH00 | 160                  | TD00-IP20       | 3          | 6      | 2             |              |              | Triple pole protection kit for TD00-D with shrouds, fuse covers and phase barriers                     |
|      |                      | TD00-IP20I      |            |        |               |              | 1            | Integral triple pole protection kit for TD00-DI with molded shrouds and phase barriers                 |
|      |                      | TD00-IP20IC     | 3          |        |               |              | 1            | Integral triple pole protection kit for TD00-DI with fuse covers and molded shrouds and phase barriers |
| NH1  | 250                  | TD1-IP20        | 3          | 6      | 2             | 2            |              | Triple pole protection kit with terminal shrouds, fuse cover phase barriers and ganging links          |
| NH2  | 400                  | TD2-IP20        |            |        |               |              |              |                                                                                                        |
| NH3  | 630                  | TD3-IP20        |            |        |               |              |              |                                                                                                        |



TD00-IP20



TD00-IP20I



TD00-IP20IC



TD(size 1 to 3)-IP20

### Microswitches

| Catalog Numbers | Pack Quantity | Ratings        | Suitable for               |
|-----------------|---------------|----------------|----------------------------|
| BVL50           | 1             | 5 A 250 V a.c. | NH size 02 and 03          |
| 170H0235        | 12            | 2 A 250 V a.c. | NH size 01, 2 and 3        |
| 170H0236        | 12            | 2 A 250 V a.c. | NH Size 000, 00,0, 1 and 2 |

Microswitch suitable for the following NH fuse links:

- 400 Volts gG/gL
- 500 Volts gG/gL and aM
- 690 Volts gG/gL and aM
- 800 Volts gG/gL

**Note:** Microswitches fit onto the fuse gripping lugs and are applicable to all NH size Bussmann series fuses.



BVL50



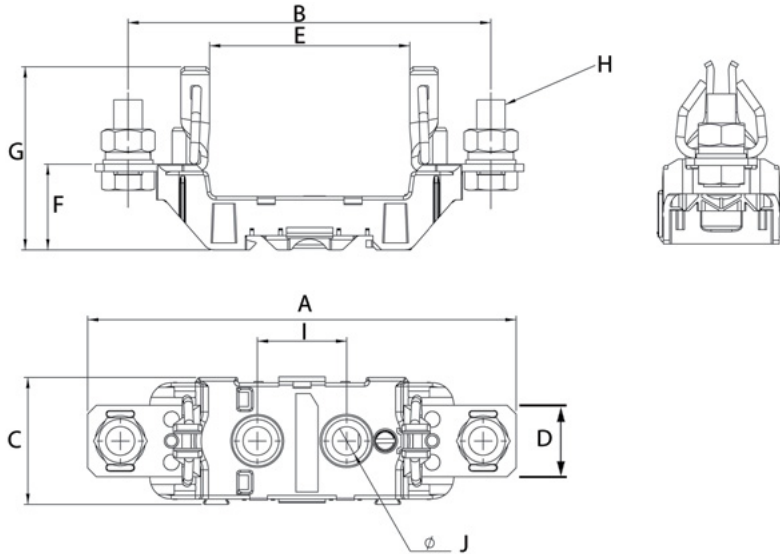
170H0236

[Data sheet 10163](#)

## SD and TD fuse bases and accessories

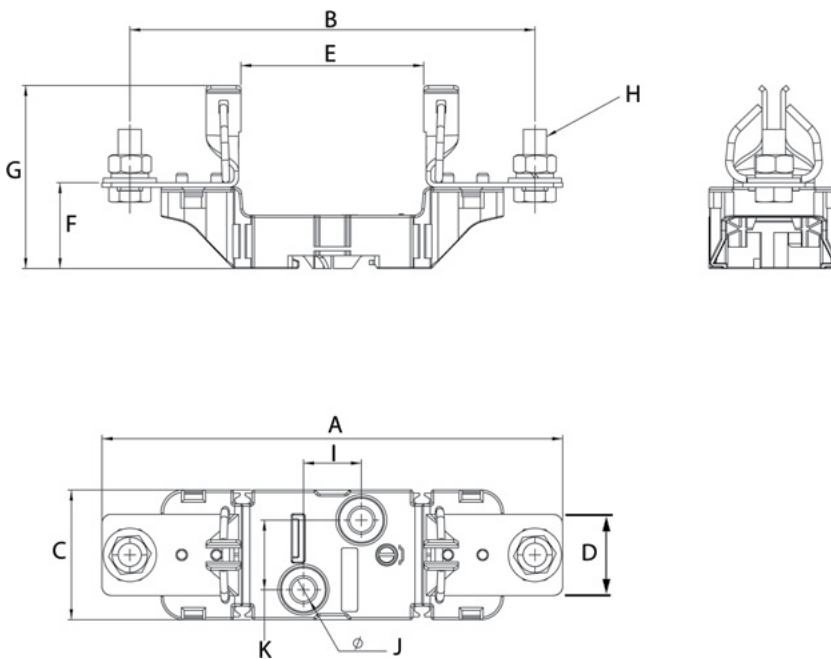
### Dimensions - mm

#### 1-pole, size 00



| Size | Pole   | A   | B   | C    | D  | E  | F  | G  | H     | I  | J |
|------|--------|-----|-----|------|----|----|----|----|-------|----|---|
| NH00 | 1-pole | 120 | 102 | 35.5 | 20 | 56 | 24 | 51 | M8x20 | 25 | 8 |

#### 1-pole, sizes 1, 2 and 3



| Size | Poles/Type         | A   | B   | C  | D  | E  | F    | G  | H      | I  | J  | K  |
|------|--------------------|-----|-----|----|----|----|------|----|--------|----|----|----|
| NH1  | 1-pole             | 199 | 175 | 56 | 35 | 79 | 37   | 78 | M10x25 | 25 | 10 | 30 |
| NH2  | 1 pole             | 224 | 199 | 56 | 35 | 79 | 37.5 | 86 | M10x25 | 25 | 10 | 30 |
|      | 1-pole double clip | 223 | 199 | 56 | 35 | 82 | 37   | 79 | M10x25 | 25 | 10 | 30 |
| NH3  | 1-pole             | 239 | 209 | 56 | 36 | 82 | 37.5 | 88 | M12x30 | 25 | 10 | 30 |

[Data sheet 10163](#)

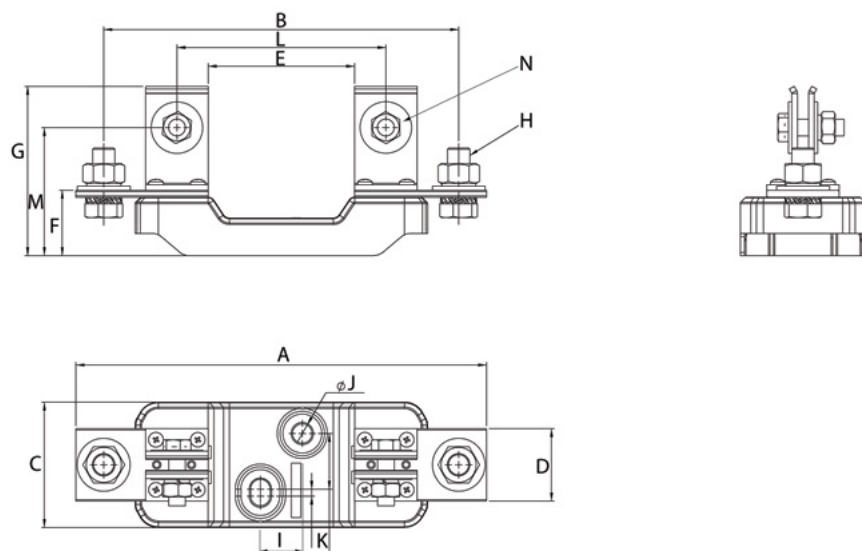
# NH Fuse bases and accessories

SD and TD fuse bases and accessories

## SD and TD fuse bases and accessories

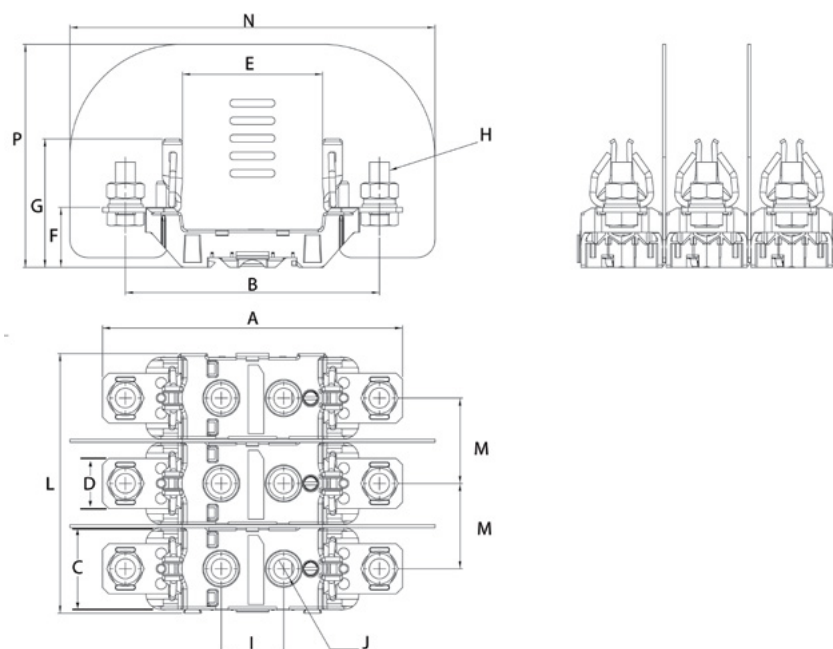
Dimensions - mm

1-pole, size 4



| Size | Poles/Type   | A   | B   | C  | D  | E   | F  | G   | H      | I  | J  | K  | L   | M  | N      |
|------|--------------|-----|-----|----|----|-----|----|-----|--------|----|----|----|-----|----|--------|
| NH4  | 1-pole 1250A | 295 | 255 | 90 | 52 | 105 | 47 | 122 | M16x40 | 30 | 14 | 40 | 150 | 92 | M12x40 |
|      | 1-pole 1600A | 295 | 255 | 90 | 60 | 105 | 50 | 125 | M16x40 | 30 | 14 | 40 | 150 | 92 | M12x40 |

3-pole, size 00



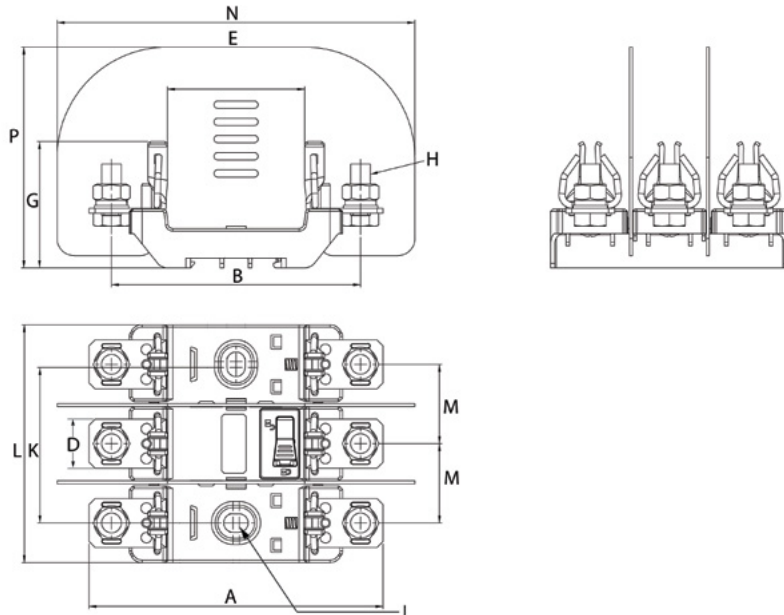
| Size | Poles/Type | A   | B   | C    | D  | E  | F  | G  | H     | I  | J | K | L     | M  | N   | P  |
|------|------------|-----|-----|------|----|----|----|----|-------|----|---|---|-------|----|-----|----|
| NH00 | 3-pole     | 120 | 102 | 35.5 | 20 | 56 | 24 | 51 | M8x20 | 25 | 8 | - | 103.5 | 34 | 146 | 89 |

[Data sheet 10163](#)

## SD and TD fuse bases and accessories

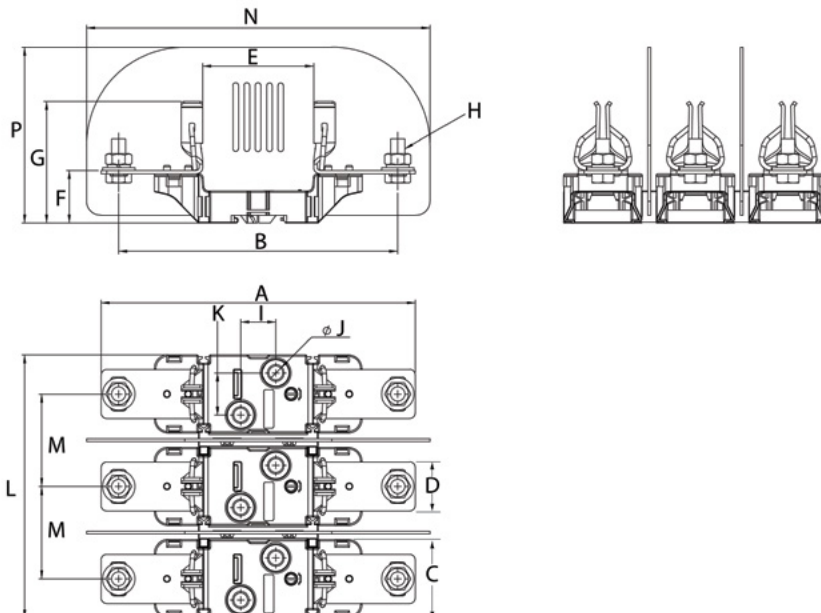
### Dimensions - mm

#### Integral 3-pole, size 00



| Size | Poles/Type      | A   | B   | C | D  | E  | F  | G  | H     | I | J      | K    | L  | M    | N   | P  |
|------|-----------------|-----|-----|---|----|----|----|----|-------|---|--------|------|----|------|-----|----|
| NH00 | 3-pole Integral | 120 | 102 | - | 20 | 56 | 24 | 51 | M8x20 | - | 7.5x10 | 63.5 | 97 | 32.3 | 146 | 90 |

#### 3-pole, sizes 1, 2 and 3



| Size | Poles/Type         | A   | B   | C  | D  | E  | F    | G  | H      | I  | J  | K  | L   | M    | N   | P     |
|------|--------------------|-----|-----|----|----|----|------|----|--------|----|----|----|-----|------|-----|-------|
| NH1  | 3-pole             | 199 | 175 | 56 | 35 | 79 | 37   | 78 | M10x25 | 25 | 10 | 30 | 188 | 66   | 245 | 125.5 |
| NH2  | 3-pole             | 224 | 199 | 56 | 35 | 79 | 37.5 | 86 | M10x25 | 25 | 10 | 30 | 188 | 66   | 245 | 125.5 |
|      | 3-pole double clip | 223 | 199 | 56 | 35 | 82 | 37   | 79 | M10x25 | 25 | 10 | 30 | 188 | 66   | 245 | 125.5 |
| NH3  | 3-pole             | 239 | 209 | 56 | 36 | 82 | 37.5 | 88 | M12x30 | 25 | 10 | 30 | 221 | 82.5 | 260 | 137.5 |

[Data sheet 10163](#)

### EBF Vertical NH Fuse rails

#### Specifications

##### Description

Eaton's Bussmann series NH Fuse rails are specifically designed to be used with NH Fuse links. All energized metal parts are fully protected against accidental contact. They are intended for direct installation on horizontal or vertical busbar systems.

##### Standard/agency information

IEC 60269-1 and CE.

##### Technical data

Rated voltage: 690 V a.c.

Rated current:

- 160 A size 00
- 400 A size 2
- 630 A size 3



#### Product selection

| Size                                                       | Rated current (Amps) | Busbar system | Catalog numbers | Cable terminals                                                                                 | Pack quantity | Weight | Compatible fuse links size |
|------------------------------------------------------------|----------------------|---------------|-----------------|-------------------------------------------------------------------------------------------------|---------------|--------|----------------------------|
| Vertical fuse rail for NH Size 00                          |                      |               |                 |                                                                                                 |               |        |                            |
| 00                                                         | 160                  | 100 mm*       | EBF00230S8      | Bridge terminals with bridge clamps (S) 4 - 70 mm <sup>2</sup> , screw terminals with M8 screws | 1             | 1 kg   | 00                         |
|                                                            |                      |               | EBF00230V1      | V-Terminals with V-Clamps 25 - 120 SW                                                           |               | 1.1 kg |                            |
|                                                            |                      |               | EBF00230V0      | V Terminals without V-Clamps                                                                    |               | 1 kg   |                            |
|                                                            |                      | 185mm         | EBF00330S8      | Bridge terminals with bridge clamps (S) 4 - 70 mm <sup>2</sup> , screw terminals with M8 screws | 1             | 2 kg   |                            |
|                                                            |                      |               | EBF00330V1      | V-Terminals with V-Clamps 25 - 120 SW                                                           |               | 2.2 kg |                            |
|                                                            |                      |               | EBF00330V0      | V Terminals without V-Clamps                                                                    |               | 2 kg   |                            |
| Vertical fuse rail suitable for NH Size 1 and size 2 fuses |                      |               |                 |                                                                                                 |               |        |                            |
| 2                                                          | 400                  | 185 mm        | EBF2330V1       | V-Terminals with V-Clamps (35 - 240 mm <sup>2</sup> )                                           | 1             | 3.2 kg | 1 and 2                    |
|                                                            |                      |               | EBF2330M1       | Screw terminals with pressed nuts M10 (M10 Screw)                                               |               | 3.1 kg |                            |
|                                                            |                      |               | EBF2330M2       | Screw terminals with pressed nuts M12 (M12 Screw)                                               |               | 3.1 kg |                            |
|                                                            |                      |               | EBF2330W1       | 2V-Terminals with double V-Clamps (2 x 50 - 240 mm <sup>2</sup> )                               |               | 3.8 kg |                            |
| Vertical fuse rail suitable for NH Size 3 fuses            |                      |               |                 |                                                                                                 |               |        |                            |
| 3                                                          | 630                  | 185 mm        | EBF3330V1       | V-Terminals with V-Clamps (70 - 300 SW)                                                         | 1             | 4 kg   | 3                          |
|                                                            |                      |               | EBF3330M1       | Screw terminals with pressed nuts M12 (M12 Screw)                                               |               | 3.1 kg |                            |
|                                                            |                      |               | EBF3330W1       | 2V-Terminals with double V-Clamps (2 x 50 - 240 mm <sup>2</sup> )                               |               | 4.8 kg |                            |

\* EBF 00 - 100 mm fuse rails are designed for installation onto 100 mm busbar systems. Installation onto a 185 mm busbar system is possible by using an adaptor

#### Technical data

| Type                                        |                  | EBF 00 100 mm | EBF 00 185 mm | EBF 2           | EBF 3           |
|---------------------------------------------|------------------|---------------|---------------|-----------------|-----------------|
| Size                                        |                  | 00            | 00            | 2               | 3               |
| Rated thermal Rated current $I_m = I_n$     | A                | 160           | 160           | 400             | 630             |
| Rated voltage $U_n$                         | V                | 690           | 690           | 690             | 690             |
| Rated insulation Rated voltage $U_i$        | V                | 1000          | 1000          | 1000            | 1000            |
| Rated frequency                             | Hz               | 50 - 60       | 50 - 60       | 50 - 60         | 50 - 60         |
| Rated power dissipation                     | W                | 12            | 12            | 45              | 60              |
| Rated short-circuit withstand Rated current | kA               | 100           | 100           | 100             | 100             |
| Mechanical durability                       | Number of cycles | 100           | 100           | 100             | 100             |
| Weight                                      | kg               | 0.75          | 2             | 4.5             | 5               |
| IP Degree of protection                     | IP               | 00            | 00            | 20 <sup>1</sup> | 20 <sup>1</sup> |
| Size of fuse links                          |                  | 00            | 00            | 2               | 3               |

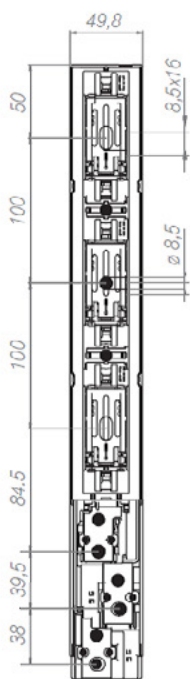
1 With fuse links shrouds

[Data sheet 10240](#)

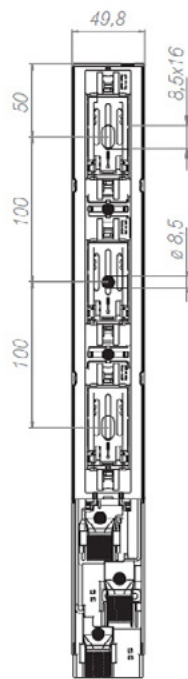
### EBF Vertical NH Fuse rails

#### Dimensions - mm

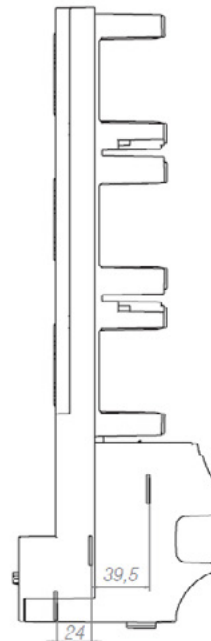
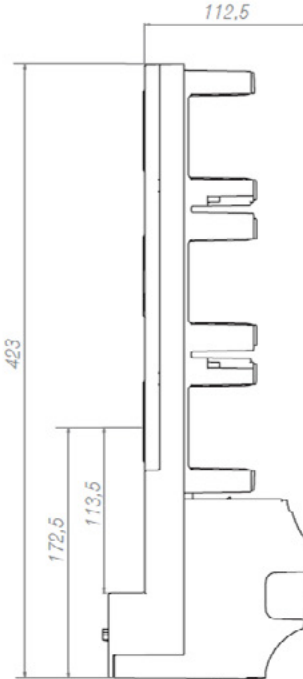
##### EBF 00 100 mm busbar system



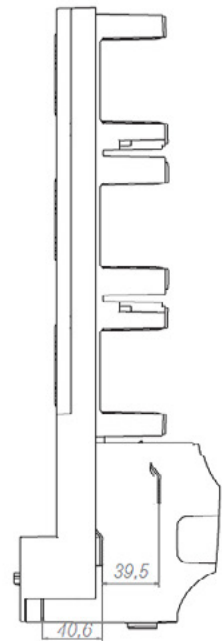
M8 Screws



V-Terminals

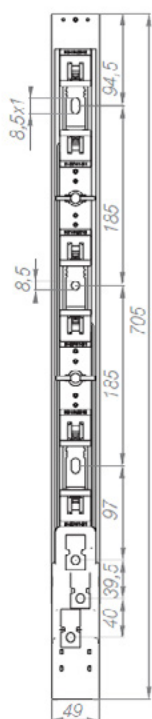


M8 Screws  
side view

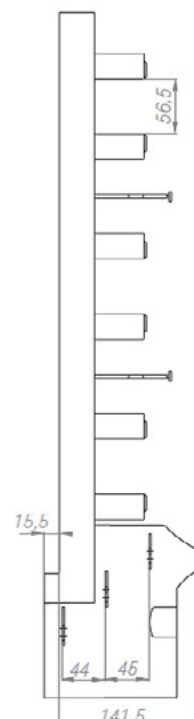


V-Terminals  
side view

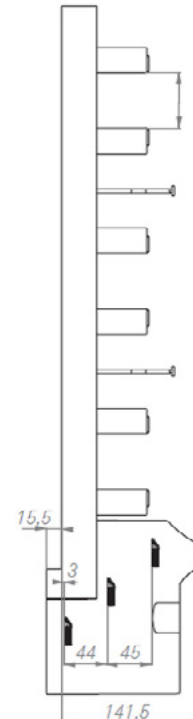
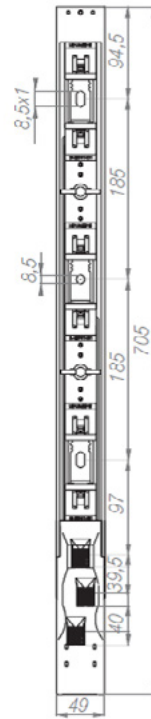
##### EBF 00 185 mm busbar system



M8 Screws



V-Terminals



# NH Fuse gear

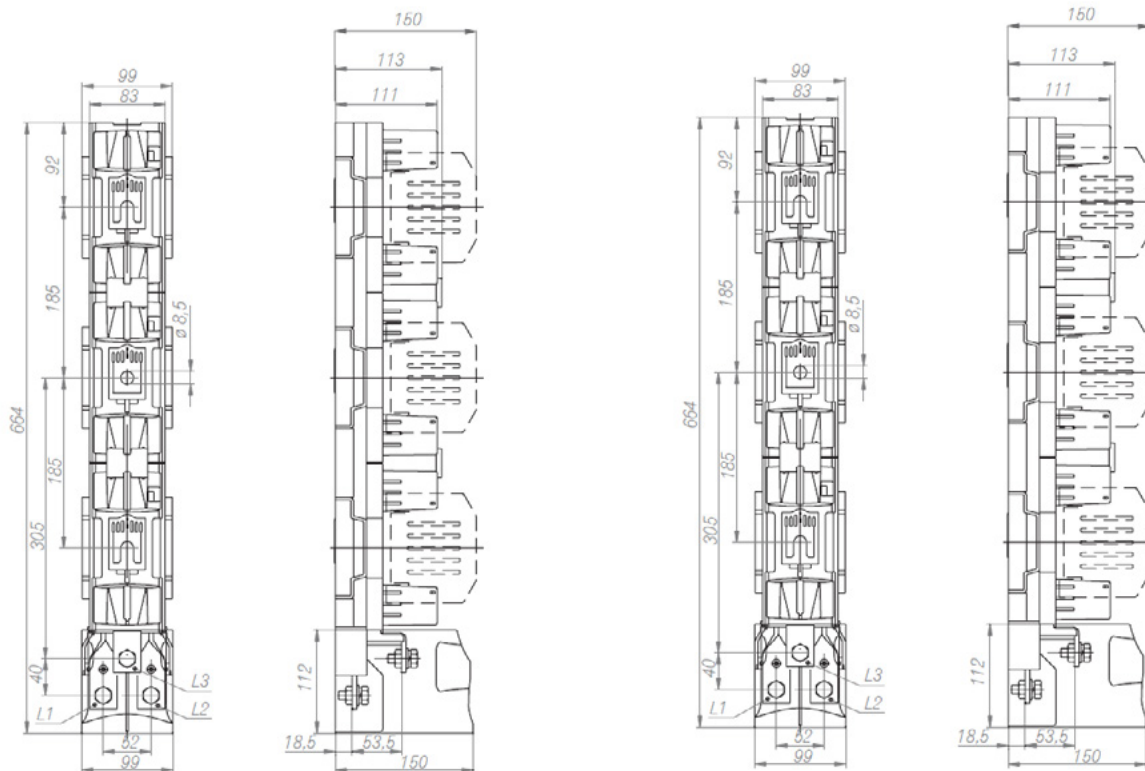
EBF Vertical NH Fuse rails

## EBF Vertical NH Fuse rails

Dimensions - mm

EBF 2 and 3

EBF 2 and 3 With terminals 2V (2 x 240 mm<sup>2</sup>)



[Data sheet 10240](#)

## EBV Vertical NH Fuse switch disconnectors

### Specifications

#### Description

Eaton's Bussmann series NH Vertical fuse switch disconnectors are specifically designed to be used with NH Fuse links. All energized metal parts are fully protected against accidental contact. They are suitable for direct installation on horizontal or vertical busbar systems. The three poles can be switched independently or simultaneously depending upon the version. These are manually operated switches and the making and breaking is dependent on the speed of the operation. The Bussmann serie EBV NH gear range is provided complete with the clamps (i.e. screws V-terminals/2V-terminals) and shrouds for cable termination.



#### Technical data

- Rated voltage: 690 V a.c.
- Rated current: 160 to 630 A
- Utilisation category:
  - AC21B 690 V a.c. Size 3
  - AC22B 500 V a.c. Sizes 00 to 3
  - AC23B 400 V a.c. Size 00 to 3.

#### Standard/agency information

IEC 60947-1 and 3, EN 60947-1 and 3

#### Technical data

| Type                                                          |               | EBV 00/ 100 mm | EBV 00 | EBV 2                             | EBV 3                             |
|---------------------------------------------------------------|---------------|----------------|--------|-----------------------------------|-----------------------------------|
| Rated thermal Rated current with fuse links<br>$I_{th} = I_n$ | A             | 160            | 160    | 400                               | 630                               |
| Rated thermal Rated current with solid links $I_{th}$         | A             | N/A            | N/A    | 600                               | 750                               |
| Rated voltage $U_n$                                           | V             | 690            | 690    | 690                               | 690                               |
| Utilisation category                                          | 690 V a.c.    | AC-22B         | AC-22B | AC-22B                            | AC-21B                            |
|                                                               | 500 V a.c.    | N/A            | N/A    | N/A                               | AC-22B                            |
|                                                               | 400 V a.c.    | AC-23B         | AC-23B | AC-23B                            | AC-23B                            |
| Rated switching Rated current $I_e$                           | A             | 160            | 160    | 400                               | 630 <sup>4</sup>                  |
| Rated short-circuit making Rated current                      | 690 V a.c.    | 25             | 80     | 100                               | 80                                |
|                                                               | 500 V a.c.    | 25             | N/A    | 100                               | 100                               |
|                                                               | 400 V a.c.    | 25             | 100    | 100                               | 100                               |
| Rated short-circuit withstand Rated current                   | 690 V a.c.    | 100            | 80     | 100                               | 80                                |
|                                                               | 500 V a.c.    | 100            | N/A    | 100                               | 100                               |
|                                                               | 400 V a.c.    | 100            | 100    | 100                               | 100                               |
| Rated insulation Rated voltage $U_i$                          | V             | 1000           | 1000   | 1000                              | 1000                              |
| Rated impulse withstand Rated voltage $U_{imp}$               | kV            | 8              | 12     | 12                                | 12                                |
| Rated short time withstand Rated current $I_{cw}$             | kA            | N/A            | N/A    | 12 <sup>2</sup> / 15 <sup>3</sup> | 14 <sup>2</sup> / 16 <sup>3</sup> |
| Rated frequency                                               | Hz            | 50/60          | 50/60  | 50/60                             | 50/60                             |
| Mechanical durability                                         | No. of cycles | 1600           | 1600   | 1000                              | 1000                              |
| Electrical durability                                         |               | 200            | 200    | 200                               | 200                               |
| IP Rating                                                     | IP            | 30             | 20     | 30                                | 30                                |
| Fuse links size                                               |               | 00             | 00     | 1, 2                              | 3                                 |

1: fuse link gTr 630 kVA, DIN 43620, VDE 0636/2011 Rated voltage

2: For disconnectors 1-phase disconnected

3: For disconnectors 3-phase disconnectors

4: EBV3 can safely "switch" at 910A under AC22B condition

### EBV Vertical NH Fuse switch disconnectors

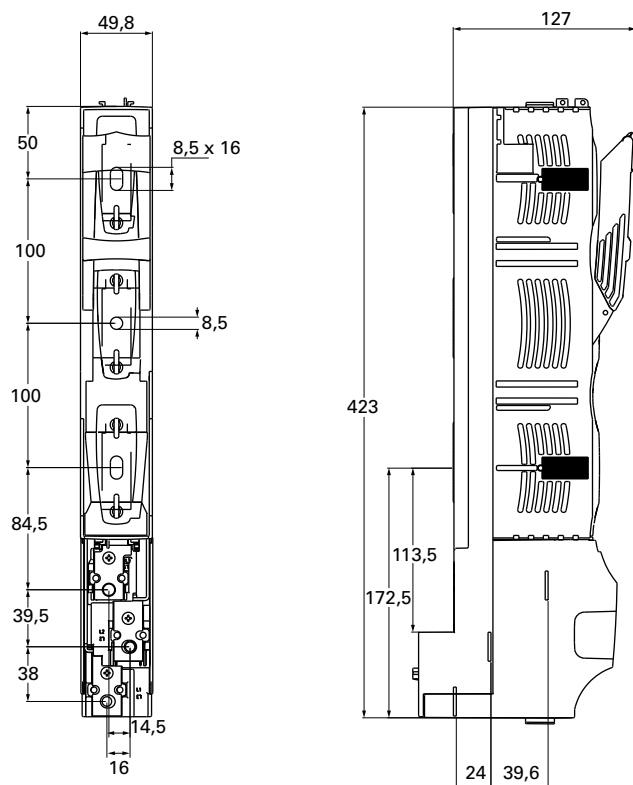
#### Product selection

| Size                                                                                                              | Rated current (Amps) | Busbar System | Catalog numbers | Cable terminals                                                                               | Pack quantity | Weight | Compatible fuse link size |
|-------------------------------------------------------------------------------------------------------------------|----------------------|---------------|-----------------|-----------------------------------------------------------------------------------------------|---------------|--------|---------------------------|
| Vertical fuse switch disconnector for NH Size 00 for 100 mm busbar system - simultaneous 3 phase switching        |                      |               |                 |                                                                                               |               |        |                           |
| 00                                                                                                                | 160                  | 100           | EBV0023TS8      | Bridge terminals with bridge clamps (s) 4-70mm <sup>2</sup> , screw terminals with M8 screws  | 1             | 1.3 kg | 00                        |
| 00                                                                                                                | 160                  | 100           | EBV00023TV1     | V-terminals with V-clamps 25-120SW                                                            |               | 1.5 kg |                           |
| 00                                                                                                                | 160                  | 100           | EBV00023TV0     | V-terminals, without V-clamps                                                                 |               | 1.3 kg |                           |
| Vertical fuse switch disconnector for NH Size 00 for 185 mm busbar system - each phase switching separately       |                      |               |                 |                                                                                               |               |        |                           |
| 00                                                                                                                | 160                  | 185           | EBV0033SS8      | Bridge terminals with bridge clamps (s) 4-70 mm <sup>2</sup> , screw terminals with M8 screws | 1             | 2.8 kg | 00                        |
| 00                                                                                                                | 160                  | 100           | EBV0033SV1      | V-terminals with V-clamps 25-120SW                                                            |               | 2.9 kg |                           |
| 00                                                                                                                | 160                  | 100           | EBV0033SV0      | V-terminals, without V-clamps                                                                 |               | 2.8 kg |                           |
| Vertical fuse switch disconnector for NH Size 00 for 185 mm busbar system - simultaneous 3 phase switching        |                      |               |                 |                                                                                               |               |        |                           |
| 00                                                                                                                | 160                  | 185           | EBV0033TS8      | Bridge terminals with bridge clamps (s) 4-70 mm <sup>2</sup> , screw terminals with M8 screws | 1             | 2.7 kg | 00                        |
| 00                                                                                                                | 160                  | 100           | EBV0033TV1      | V-terminals with V-clamps 25-120SW                                                            |               | 2.8 kg |                           |
| 00                                                                                                                | 160                  | 100           | EBV0033TV0      | V-terminals without V-clamps                                                                  |               | 2.7 kg |                           |
| Vertical fuse switch disconnector for NH Sizes 1 and 2 for 185 mm busbar system - each phase switching separately |                      |               |                 |                                                                                               |               |        |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233SV1       | V-terminals with V-clamps 240 mm <sup>2</sup>                                                 | 1             | 5.8 kg | 1 and 2                   |
| 2                                                                                                                 | 400                  | 185           | EBV233SM1       | Screw terminals with pressed nuts M10                                                         |               | 5.7 kg |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233SW1       | 2V-terminals with double clamps 240 mm <sup>2</sup>                                           |               | 6.4 kg |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233SV0       | V-terminals without V-clamps                                                                  |               | 5.5 kg |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233SW0       | 2V-terminals without double V-clamps                                                          |               | 6.9 kg |                           |
| Vertical fuse rail suitable for NH Sizes 1 and 2 fuses for 185mm busbar system - simultaneous 3 phase switching   |                      |               |                 |                                                                                               |               |        |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233TV1       | V-terminals with V-clamps 240 mm <sup>2</sup>                                                 | 1             | 5.8 kg | 1 and 2                   |
| 2                                                                                                                 | 400                  | 185           | EBV233TM1       | Screw terminals with pressed nuts M10                                                         |               | 5.7 kg |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233TW1       | 2V-terminals with double V-clamps 240 mm <sup>2</sup>                                         |               | 6.4 kg |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233TV0       | V-terminals without V-clamps                                                                  |               | 5.5 kg |                           |
| 2                                                                                                                 | 400                  | 185           | EBV233TW0       | 2V-terminals without double V-clamps                                                          |               | 6.9 kg |                           |
| Vertical fuse rail suitable for NH size 3 fuses for 185mm busbar system - each phase switching separately         |                      |               |                 |                                                                                               |               |        |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333SV1       | V-terminals with V-clamps 240 mm <sup>2</sup>                                                 | 1             | 6.6 kg | 3                         |
| 3                                                                                                                 | 630                  | 185           | EBV333SM2       | Screw terminals with pressed nuts M12                                                         |               | 6.5 kg |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333SW1       | 2V-terminals with double V-clamps 240mm <sup>2</sup>                                          |               | 7.2 kg |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333SV0       | V-terminals without V-clamps                                                                  |               | 6.3 kg |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333SW0       | 2V-terminals without double V-clamps                                                          |               | 6.7 kg |                           |
| Vertical fuse rail suitable for NH size 3 fuses for 185 mm busbar system - simultaneous 3 phase switching         |                      |               |                 |                                                                                               |               |        |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333TV1       | V-terminals with V-clamps 240 mm <sup>2</sup>                                                 | 1             | 6.6 kg | 3                         |
| 3                                                                                                                 | 630                  | 185           | EBV333TM2       | Screw terminals with pressed nuts M12                                                         |               | 6.5 kg |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333TW1       | 2V-terminals with double V-clamps 240 mm <sup>2</sup>                                         |               | 7.2 kg |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333TV0       | V-terminals without V-clamps                                                                  |               | 6.3 kg |                           |
| 3                                                                                                                 | 630                  | 185           | EBV333TW0       | 2V-terminals without double V-clamps                                                          |               | 6.7 kg |                           |

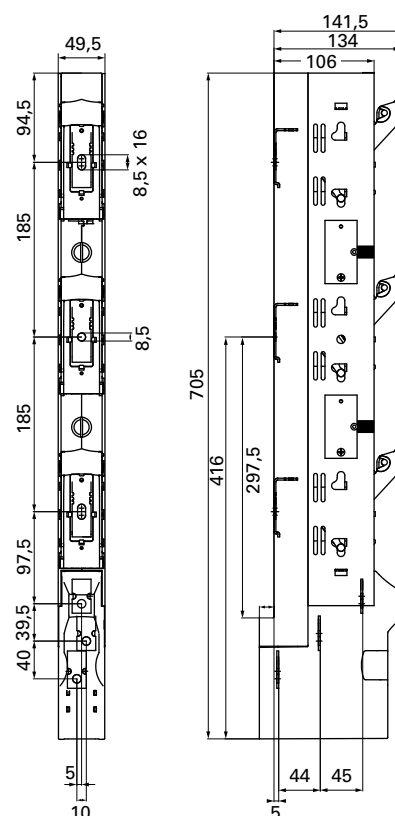
### EBV Vertical NH Fuse switch disconnectors

Dimensions - mm

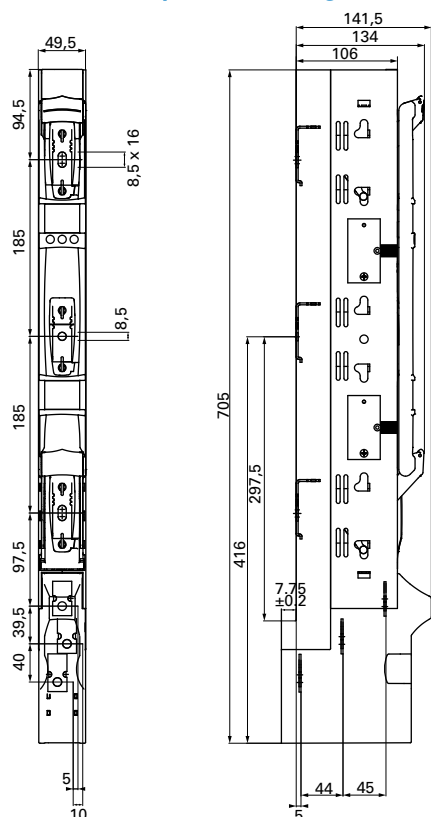
EBV 00 100 mm



EBV 00 (each phase switching separately)



EBV 00 (Three phase switching simultaneously)



[Data sheet 10275](#)

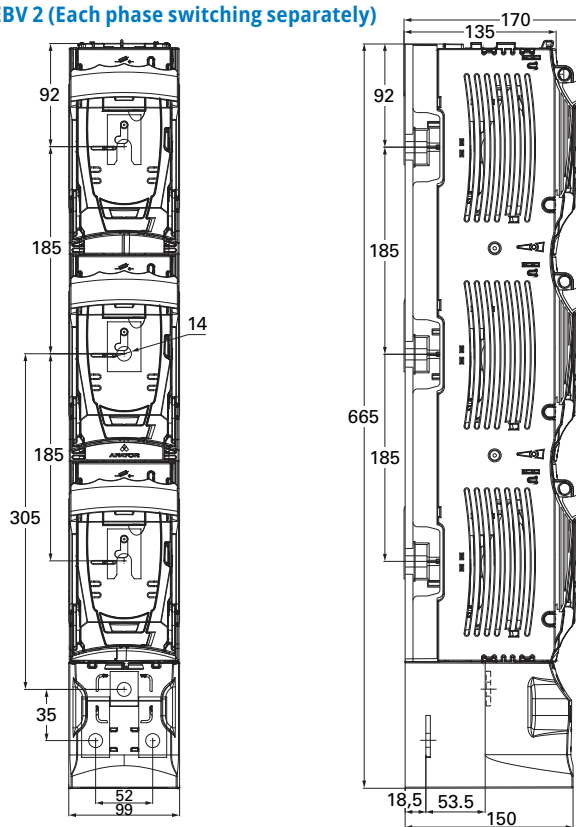
# NH Fuse gear

EBV Vertical NH Fuse switch disconnectors

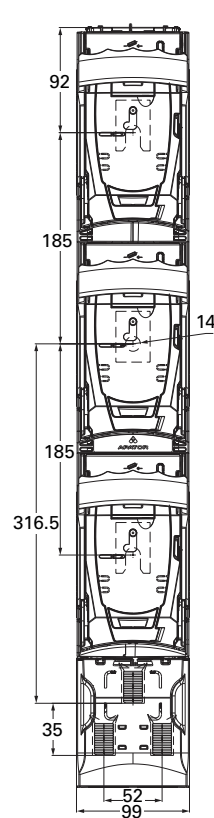
## EBV Vertical NH Fuse switch disconnectors

### Dimensions - mm

#### EBV 2 (Each phase switching separately)

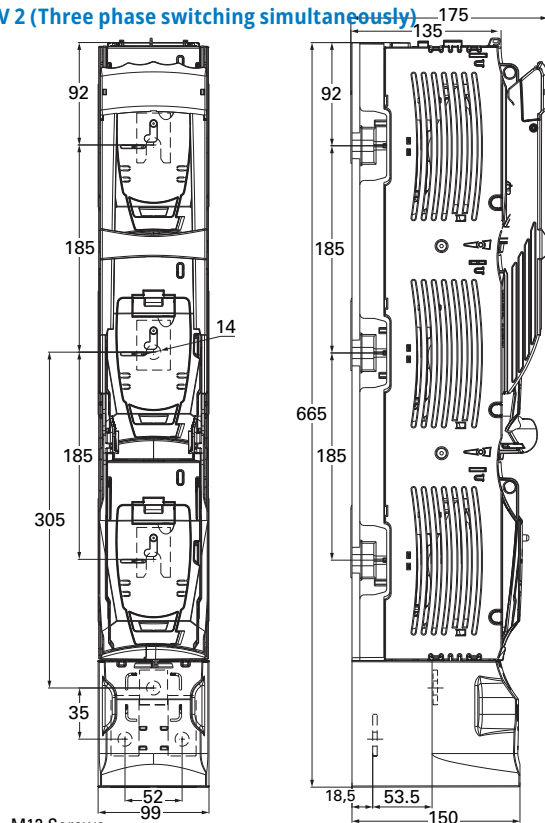


M12 Screws

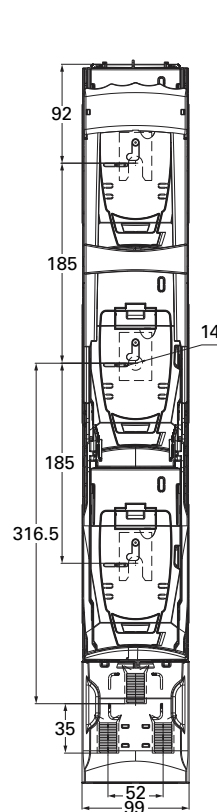


V-Terminals

#### EBV 2 (Three phase switching simultaneously)



M12 Screws



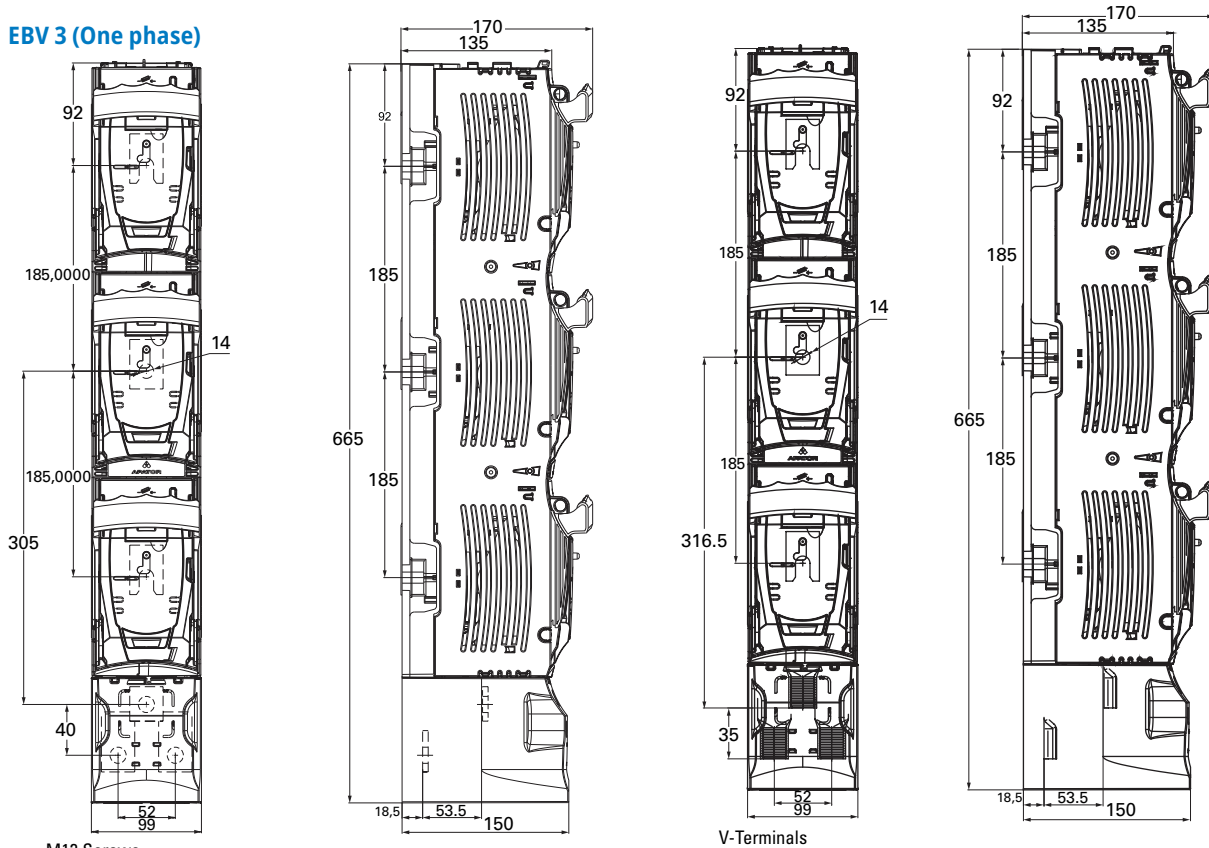
V-Terminals

[Data sheet 10275](#)

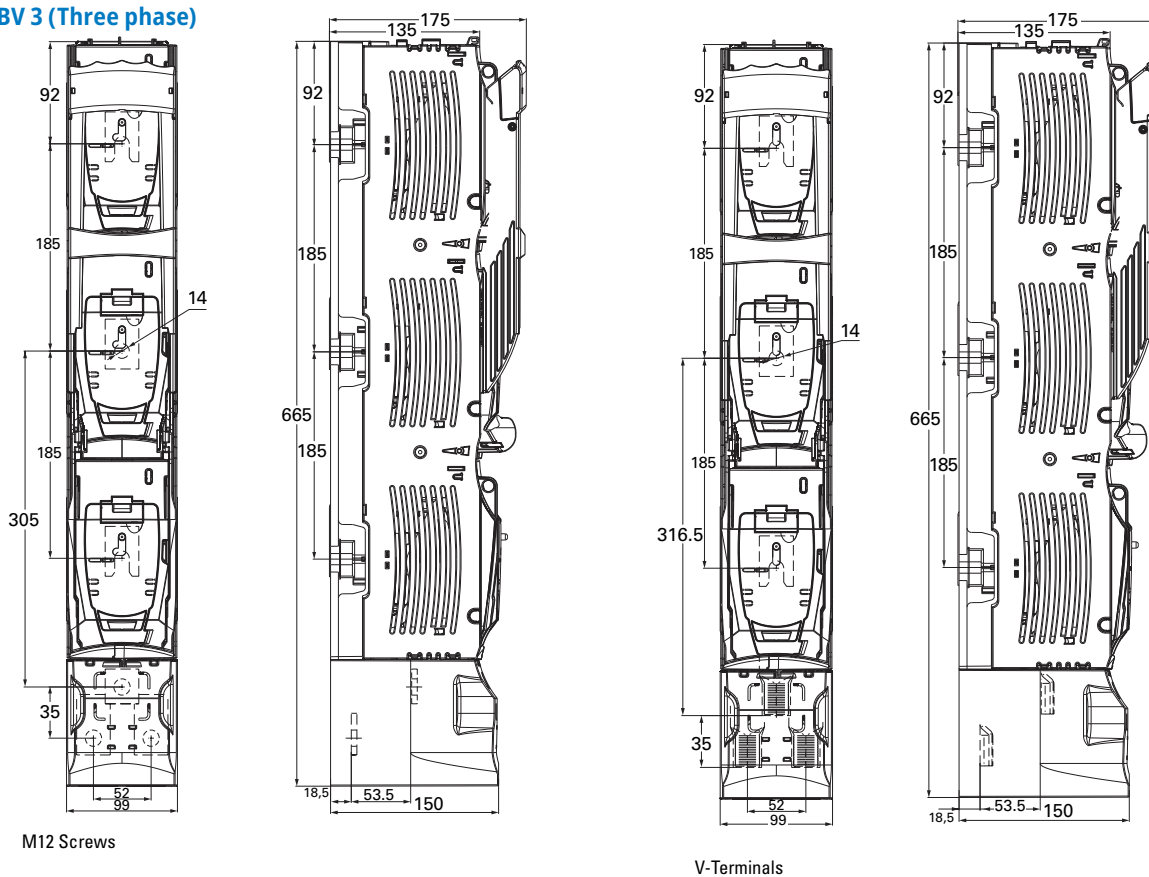
## EBV Vertical NH Fuse switch disconnectors

### Dimensions - mm

#### EBV 3 (One phase)



#### EBV 3 (Three phase)



### EBH000 Horizontal fuse switch disconnectors

#### Specifications

##### Description

Eaton's Bussmann series EBH000 NH Horizontal fuse switch disconnecter is specifically designed to be used with size 000 NH Fuse links up to 160 A. They have compact dimensions, all energized metal parts are fully protected against accidental contact. These are manually operated switches and the making and breaking is dependent on the speed of the operation.

##### Technical data

- Rated voltage: 690 V a.c.
- Rated current: 160 A
- Utilisation category:
  - AC21B
  - AC22B
  - AC23B
  - DC21B

##### Standard/agency information

- IEC 60947-1 and 3, EN 60947-1 and 3

##### Product selection

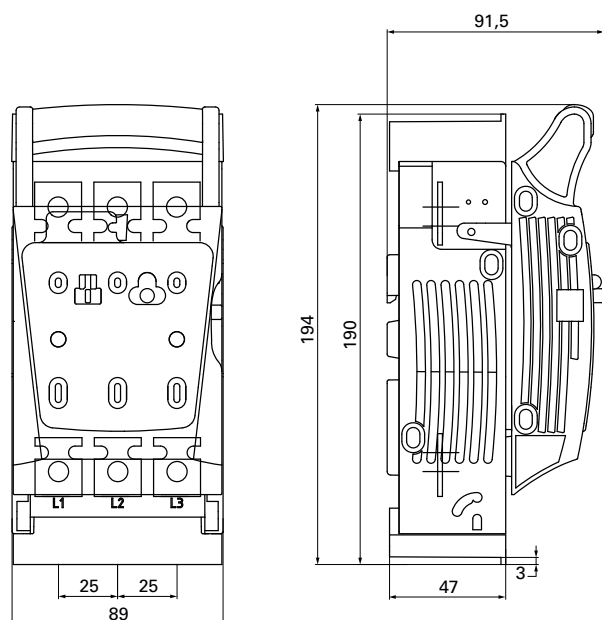
| Size                                                                                                | Rated current (Amps) | Busbar system | Catalog numbers | Cable terminals                                                                                  | Pack quantity | Compatible fuse links size |
|-----------------------------------------------------------------------------------------------------|----------------------|---------------|-----------------|--------------------------------------------------------------------------------------------------|---------------|----------------------------|
| Horizontal fuse switch disconnecter for NH size 000 up to 160 A for installation on mounting plates |                      |               |                 |                                                                                                  |               |                            |
| 000                                                                                                 | 160                  | N/A           | EBH00003TS5     | for connection of round conductors - S-bridge clamps                                             | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | N/A           | EBH00003TS5-D   | for connection of round conductors - S-bridge clamps, option to install on DIN rail              | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | N/A           | EBH00003TM8     | for connection of round conductors with lug terminals - M8 screws                                | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | N/A           | EBH00003TM8-D   | for connection of round conductors with lug terminals - M8 screws, option to install on DIN rail | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | N/A           | EBH00003TS5L    | for connection of round conductors - S-bridge clamps, lengthened terminal shrouds                | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | N/A           | EBH00003TM8L    | for connection of round conductors with lug terminals - M8 screws, lengthened terminal shrouds   | 1             | 000 up to 160 A            |
| Horizontal fuse switch disconnecter for NH size 000 up to 160 A for installation on 60 mm busbar    |                      |               |                 |                                                                                                  |               |                            |
| 000                                                                                                 | 160                  | 60 mm         | EBH00013TBS5    | Cable terminal – bottom, for connection of round conductors - S-bridge clamps                    | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | 60 mm         | EBH00013TTS5    | Cable terminal – top, for connection of round conductors - S-bridge clamps                       | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | 60 mm         | EBH00013TBM8    | Cable terminal – bottom, for connection of conductors with lug terminals - M8 screws             | 1             | 000 up to 160 A            |
| 000                                                                                                 | 160                  | 60 mm         | EBH00013TTM8    | Cable terminal – top, for connection of conductors with lug terminals - M8 screws                | 1             | 000 up to 160 A            |



## EBH000 Horizontal fuse switch disconnectors

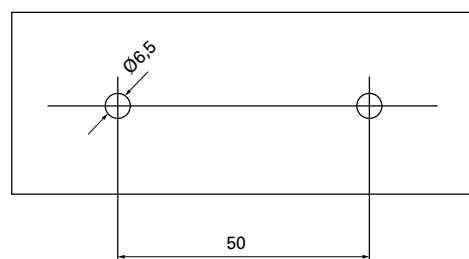
### Dimensions - mm

#### EBH000

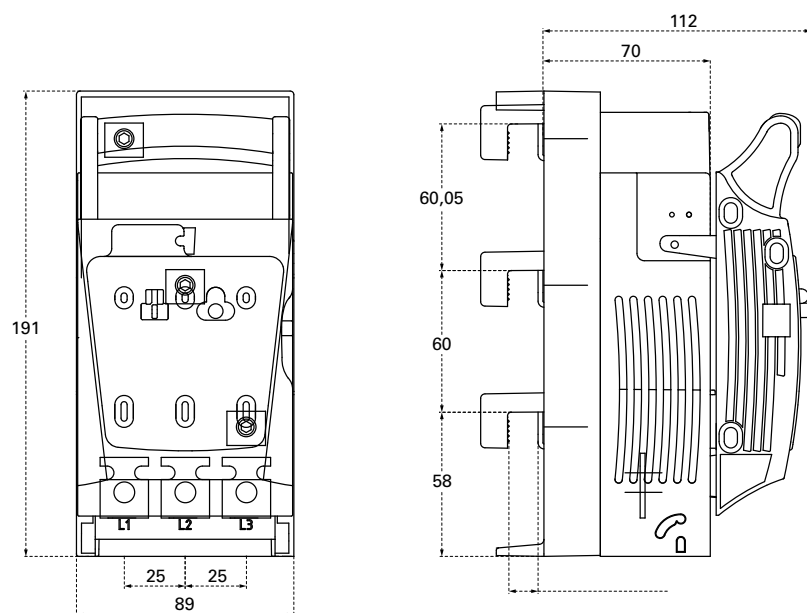


With extended terminal shrouds

### Dimensions and spacing of holes for installation on EBH000 O on mounting plates



#### EBH000 (60 mm busbar mounting)



Bottom cable terminal

[Data sheet 10292](#)

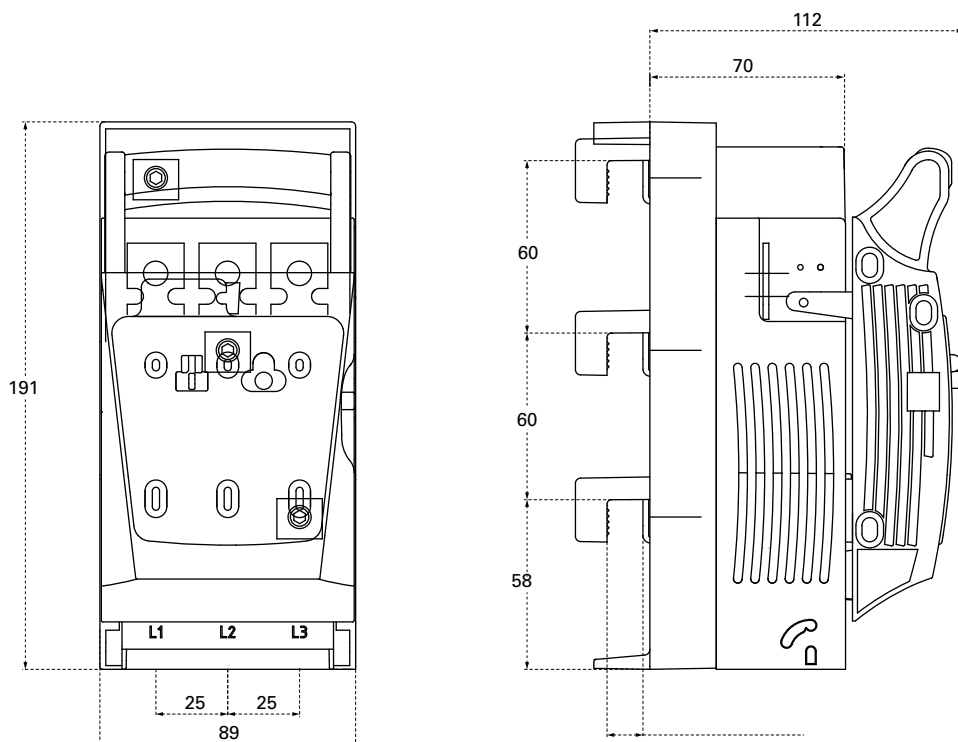
## NH Fuse gear

EBH000 Horizontal fuse switch disconnectors

### EBH000 Horizontal fuse switch disconnectors

#### Dimensions - mm

[Top cable terminal](#)



Data sheet 10292

[Data sheet 10292](#)

## EBH00 to 4 Horizontal fuse switch disconnectors

### Specifications

#### Description

Eaton's Bussmann series NH horizontal fuse switch disconnectors are specifically designed to be used with NH fuse links.

All energised metal parts are fully protected against accidental contact. These are manually operated switches and the making and breaking is dependent on the speed of the operation. The Bussmann series EBV NH gear range is provided complete with the clamps (i.e. screws/V-terminals/2V-terminals) and cable for shrouds for cable termination.

#### Technical data

- Rated voltage: 400, 500 and 690 V a.c.
- Rated current: 160 to 1600 A
- Utilisation category:
  - AC21B Size 4
  - AC22B Sizes 00 (V 120), 1-S, 3, 4
  - AC23B Sizes 00 to 2
  - DC21B Sizes 00, 2 and 3
  - DC21B Sizes 00, 1 and 2

#### Standard/agency information

- IEC 60947-1 and 3, EN 60947-1 and 3

#### Product selection

| Size                                                                                   | Rated current (Amps) | Busbar system | Catalog numbers | Cable terminals                                                                                      | Pack quantity | Compatible fuse links size |
|----------------------------------------------------------------------------------------|----------------------|---------------|-----------------|------------------------------------------------------------------------------------------------------|---------------|----------------------------|
| Horizontal fuse switch disconnector for NH size 00 for installation on mounting plates |                      |               |                 |                                                                                                      |               |                            |
| 00                                                                                     | 160                  | N/A           | EBH0003TS5      | For connection of round conductors                                                                   | 1             | 00                         |
| 00                                                                                     | 160                  | N/A           | EBH0003TM8      | For connection of conductors with lug terminals                                                      | 1             | 00                         |
| 00                                                                                     | 160                  | N/A           | EBH0003TV1      | For connection of sector-shaped conductors                                                           | 1             | 00                         |
| 00                                                                                     | 160                  | N/A           | EBH0003TS5L     | For connection of round conductors, lengthened terminal shrouds                                      | 1             | 00                         |
| 00                                                                                     | 160                  | N/A           | EBH0003TM8L     | For connection of conductors with lug terminals, lengthened terminal shrouds                         | 1             | 00                         |
| 00                                                                                     | 160                  | N/A           | EBH0003TV1L     | For connection of sector-shaped conductors, lengthened terminal shrouds                              | 1             | 00                         |
| Horizontal fuse switch disconnector for NH size 00 for installation on 60 mm busbar    |                      |               |                 |                                                                                                      |               |                            |
| 00                                                                                     | 160                  | 60 mm         | EBH0013TBM8     | Cable terminal - bottom, for connection of conductors with lug terminals                             | 1             | 00                         |
| 00                                                                                     | 160                  | 60 mm         | EBH0013TTM8     | Cable terminal - top, for connection of conductors with lug terminals                                | 1             | 00                         |
| 00                                                                                     | 160                  | 60 mm         | EBH0013TBF      | Cable terminal - bottom, for connection of conductors with bare ends                                 | 1             | 00                         |
| 00                                                                                     | 160                  | 60 mm         | EBH0013TTF      | Cable terminal - top, for connection of conductors with bare ends frame clamps                       | 1             | 00                         |
| Horizontal fuse switch disconnector for NH size 1 for installation on mounting plates  |                      |               |                 |                                                                                                      |               |                            |
| 1                                                                                      | 250                  | N/A           | EBH103TS8       | For connection of round conductors - S-bridge clamps                                                 | 1             | 1                          |
| 1                                                                                      | 250                  | N/A           | EBH103TM1       | For connection of conductors with lug terminals - screws                                             | 1             | 1                          |
| 1                                                                                      | 250                  | N/A           | EBH103TV1       | For connection of sector-shaped conductors V-clamps                                                  | 1             | 1                          |
| 1                                                                                      | 250                  | N/A           | EBH103TVS       | For connection of round conductors, top terminals, V-terminals, bottom terminals, S-bridge terminals | 1             | 1                          |
| 1                                                                                      | 250                  | N/A           | EBH103TVM       | For connection of round conductors, top terminals, V-terminals, bottom terminals, screw terminals    | 1             | 1                          |
| 1                                                                                      | 250                  | N/A           | EBH103TSV       | For connection of round conductors, top terminals, S-bridge terminals, bottom terminals, V-terminals | 1             | 1                          |
| 1                                                                                      | 250                  | N/A           | EBH103TMV       | For connection of round conductors, top terminal, screw terminals, bottom terminals, V-terminals     | 1             | 1                          |



### EBH00 to 4 Horizontal fuse switch disconnectors

| Size                                                                                  | Rated current (Amps) | Busbar system | Catalog numbers | Cable terminals                                                                     | Pack quantity | Compatible fuse links size |
|---------------------------------------------------------------------------------------|----------------------|---------------|-----------------|-------------------------------------------------------------------------------------|---------------|----------------------------|
| Horizontal fuse switch disconnecter for NH size 1 for installation on 60 mm busbar    |                      |               |                 |                                                                                     |               |                            |
| 1                                                                                     | 250                  | 60 mm         | EBH113TTS8      | Top cable terminals, for connection of round conductors, S-bridge clamps            | 1             | 1                          |
| 1                                                                                     | 250                  | 60 mm         | EBH113TBS8      | Bottom cable terminals, for connection of round conductors, S-bridge clamps         | 1             | 1                          |
| 1                                                                                     | 250                  | 60 mm         | EBH113TBM1      | Bottom cable terminals, for connection of conductors with lug terminals - screws    | 1             | 1                          |
| 1                                                                                     | 250                  | 60 mm         | EBH113TTV1      | Top cable terminals, for connection of sector-shaped conductors - V-clamps          | 1             | 1                          |
| 1                                                                                     | 250                  | 60 mm         | EBH113TBV1      | Bottom cable terminals for connection of sector-shaped conductors - V-clamps        | 1             | 1                          |
| Horizontal fuse switch disconnecter for NH size 1 for installation on 100 mm busbar   |                      |               |                 |                                                                                     |               |                            |
| 1                                                                                     | 250                  | 100 mm        | EBH123TTS8      | Top cable terminals, for connection of round conductors                             | 1             | 1                          |
| 1                                                                                     | 250                  | 100 mm        | EBH123TBS8      | Bottom cable terminals, for connection of round conductors - S-bridge clamps        | 1             | 1                          |
| 1                                                                                     | 250                  | 100 mm        | EBH123TTM1      | Top cable terminals, for connection of conductors, with lug terminals - screws      | 1             | 1                          |
| 1                                                                                     | 250                  | 100 mm        | EBH123TBM1      | Bottom cable terminals, for connection of conductors, with lug terminals - screws   | 1             | 1                          |
| 1                                                                                     | 250                  | 100 mm        | EBH123TTV1      | Top cable terminals, for connection of sector shaped conductors - V-clamps          | 1             | 1                          |
| 1                                                                                     | 250                  | 100 mm        | EBH123TBV1      | Bottom cable terminals for connection                                               | 1             | 1                          |
| Horizontal fuse switch disconnecter for NH size 2 for installation on mounting plates |                      |               |                 |                                                                                     |               |                            |
| 2                                                                                     | 400                  | N/A           | EBH203TTS8      | For connection of round conductors - S-bridge clamps                                | 1             | 2                          |
| 2                                                                                     | 400                  | N/A           | EBH203TM1       | For connection of conductors with lug terminals - M10 screws                        | 1             | 2                          |
| 2                                                                                     | 400                  | N/A           | EBH203TV1       | For connection of sector-shaped conductors - V-clamps                               | 1             | 2                          |
| 2                                                                                     | 400                  | N/A           | EBH203TW1       | For connection of sector-shaped conductors - double V-clamps                        | 1             | 2                          |
| Horizontal fuse switch disconnect for NH size 2 for installation on 60 mm busbar      |                      |               |                 |                                                                                     |               |                            |
| 2                                                                                     | 400                  | 60            | EBH213TBM1      | Bottom cable terminals, for connection of conductors with lug terminals, M10 screws | 1             | 2                          |
| 2                                                                                     | 400                  | 60            | EBH213TTM1      | Top cable terminals, for connection of conductors with lug terminals, M10 screws    | 1             | 2                          |
| 2                                                                                     | 400                  | 60            | EBH213TBV1      | Bottom cable terminals, for connection of sector-shaped conductors, V-clamps        | 1             | 2                          |
| 2                                                                                     | 400                  | 60            | EBH213TTV1      | Top cable terminals, for connection of sector shaped conductors, V-clamps           | 1             | 2                          |
| 2                                                                                     | 400                  | 60            | EBH213TBW1      | Bottom cable terminals, for connection of sector shaped conductors, double V-clamps | 1             | 2                          |
| 2                                                                                     | 400                  | 60            | EBH213TTW1      | Top cable terminals, for connection of sector shaped conductors, double V-clamps    | 1             | 2                          |
| Horizontal fuse switch disconnecter for NH size 2 for installation on 100 mm busbar   |                      |               |                 |                                                                                     |               |                            |
| 2                                                                                     | 400                  | 100           | EBH223TBM1      | Bottom cable terminals, for connection of conductors with lug terminals, M10 screws | 1             | 2                          |
| 2                                                                                     | 400                  | 100           | EBH223TTM1      | Top cable terminals, for connection of conductors with lug terminals, M10 screws    | 1             | 2                          |
| 2                                                                                     | 400                  | 100           | EBH223TBV1      | Bottom cable terminals, for connection of sector shaped conductors , V-clamps       | 1             | 2                          |
| 2                                                                                     | 400                  | 100           | EBH223TTV1      | Top cable terminals, for connection of sector shaped conductors, V-clamps           | 1             | 2                          |
| 2                                                                                     | 400                  | 100           | EBH223TBW1      | Bottom cable terminals, for connection of sector shaped conductors, double V-clamps | 1             | 2                          |
| 2                                                                                     | 400                  | 100           | EBH223TTW1      | Top cable terminals, for connection of sector shaped conductors, double V-clamps    | 1             | 2                          |
| Horizontal fuse switch disconnecter for NH size 3 for installation on mounting plates |                      |               |                 |                                                                                     |               |                            |
| 3                                                                                     | 630                  | N/A           | EBH303TTS8      | For connection of round conductors, S-bridge clamps                                 | 1             | 3                          |
| 3                                                                                     | 630                  | N/A           | EBH303TM2       | For connection of conductors with lug terminals, M12 screws                         | 1             | 3                          |
| Horizontal fuse switch disconnecter for NH size 3 for installation on 60 mm busbar    |                      |               |                 |                                                                                     |               |                            |
| 3                                                                                     | 630                  | 60 mm         | EBH313TM2       | For installation on to 60 mm busbar system, top/bottom cable terminals, M12 screws  | 1             | 3                          |
| Horizontal fuse switch disconnecter for NH size 4 for installation on mounting plates |                      |               |                 |                                                                                     |               |                            |
| 4a                                                                                    | 1250                 | N/A           | EBH403TM2-12    | Three phase switching simultaneously                                                | 1             | 4                          |
| 4a                                                                                    | 1600                 | N/A           | EBH403TM2-16    | Three phase switching simultaneously                                                | 1             | 4                          |
| 4a                                                                                    | 1250                 | N/A           | EBH403SM2-12    | Each phase switching simultaneously                                                 | 1             | 4                          |
| 4a                                                                                    | 1600                 | N/A           | EBH403SM2-16    | Each phase switching simultaneously                                                 | 1             | 4                          |

## EBH00 to 4 Horizontal fuse switch disconnectors

### Technical data - sizes 00, 1 and 2

|                                                       |              | EBH 00   |        |        | EBH 1  |        |        | EBH 2   |        |        |
|-------------------------------------------------------|--------------|----------|--------|--------|--------|--------|--------|---------|--------|--------|
| Rated thermal Rated current with solid links $I_{th}$ | A            | 160      |        |        | 250    |        |        | 400     |        |        |
| Rated voltage $U_n$                                   | V            | 690      |        |        | 690    |        |        | 690     |        |        |
| Utilisation category                                  |              | AC-23B   | DC-21B | DC-22B | AC-23B | AC-22B | DC-22B | AC-23B  | DC-21B | DC-22B |
| Rated switching Rated current $I_e$                   | A            | 160      | 160    | 160    | 250    | 250    | 250    | 400     | 400    | 400    |
| Rated switching Rated voltage $U_e$                   | V            | 690      | 440    | 250    | 400    | 690    | 250    | 690     | 440    | 220    |
| Rated short circuit making Rated current              | 690 V        | 80       | 20     | 20     | 80     | 80     | 25     | 80      | 15     | 20     |
|                                                       | 400 V        | 100      | 20     | 20     | 100    | 100    | 25     | 100     | 15     | 20     |
| Rated short-circuit withstand Rated current           | 690 V        | 80       | 20     | 20     | 80     | 80     | 25     | 80      |        |        |
|                                                       | 400 V        | 100      | 20     | 20     | 100    | 100    | 25     | 100     |        |        |
| Rated insulation Rated voltage $U_i$                  | V            | 1000     |        |        | 1000   |        |        | 1000    |        |        |
| Rated power dissipation                               | W            | 12       |        |        | 32     |        |        | 45      |        |        |
| Rated impulse withstand Rated voltage $U_{imp}$       | kV           | 8        |        |        | 8      |        |        | 12      |        |        |
| Rated frequency                                       | Hz           | 50-60    | N/A    | N/A    | 50-60  | 50-60  | N/A    | 50-60   | N/A    | N/A    |
| Mechanical durability                                 | No of cycles | 1600     |        |        | 1600   |        |        | 1000    |        |        |
| Electrical durability                                 |              | 200      |        |        | 200    |        |        | 200     |        |        |
| IP Rating                                             | IP           | 20       |        |        | 30     |        |        | 20      |        |        |
| Weight                                                | kg           | 0.7, 0.9 |        |        | 2.5    |        |        | 3 / 4.5 |        |        |
| Fuse links size                                       |              | 00       |        |        | 1      |        |        | 2       |        |        |

### Technical data - sizes 3 and 4a

|                                                       |              | EBH 3   |        | EBH4a  |        |
|-------------------------------------------------------|--------------|---------|--------|--------|--------|
| Rated thermal Rated current with solid links $I_{th}$ | A            | 630     |        | 1250   | 1600   |
| Rated voltage $U_n$                                   | V            | 690     |        | 500    | 400    |
| Utilisation category                                  |              | AC-22B  | DC-21B | AC-22B | AC-21B |
| Rated switching Rated current $I_e$                   | A            | 630     | 630    | 1250   | 1600   |
| Rated switching Rated voltage $U_e$                   | V            | 690     | 250    | 500    | 400    |
| Rated short circuit making Rated current              | 690 V        | 100     | 100    |        |        |
|                                                       | 400 V        | 100     | 100    |        |        |
| Rated short-circuit withstand Rated current           | 690 V        | 25      |        |        |        |
|                                                       | 400 V        | 25      |        | 50     |        |
| Rated insulation Rated voltage $U_i$                  | V            | 1000    |        | 800    |        |
| Rated power dissipation                               | W            | 60      |        |        |        |
| Rated impulse withstand Rated voltage $U_{imp}$       | kV           | 12      |        | 8      |        |
| Rated frequency                                       | Hz           | 50-60   | N/A    | 50-60  |        |
| Mechanical durability                                 | No of cycles | 1000    |        |        |        |
| Electrical durability                                 |              | 200     |        |        |        |
| IP Rating                                             | IP           | 20      |        |        |        |
| Weight                                                | kg           | 5 / 5.9 |        |        |        |
| Fuse links size                                       |              | 3       |        | 4a     |        |

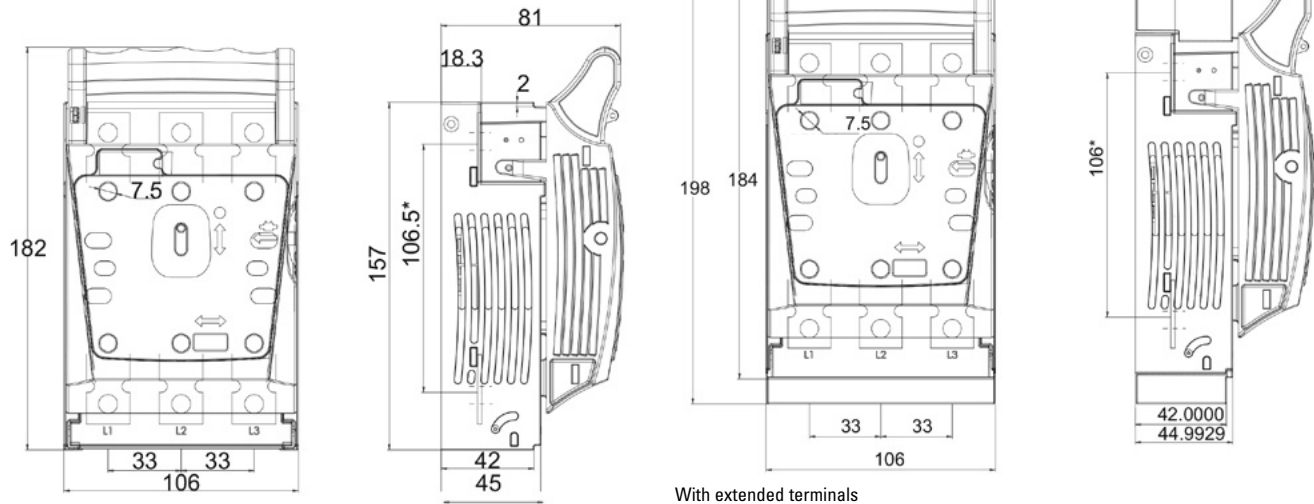
# NH Fuse gear

EBH00 to 4 Horizontal fuse switch disconnectors

## EBH00 to 4 Horizontal fuse switch disconnectors

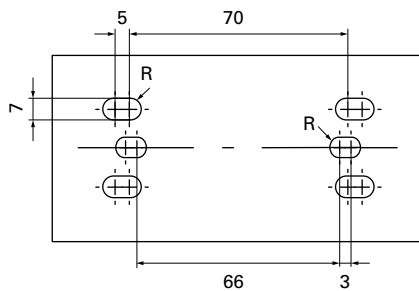
Dimensions (mm)

For EBH00 suitable for installation on mounting plates

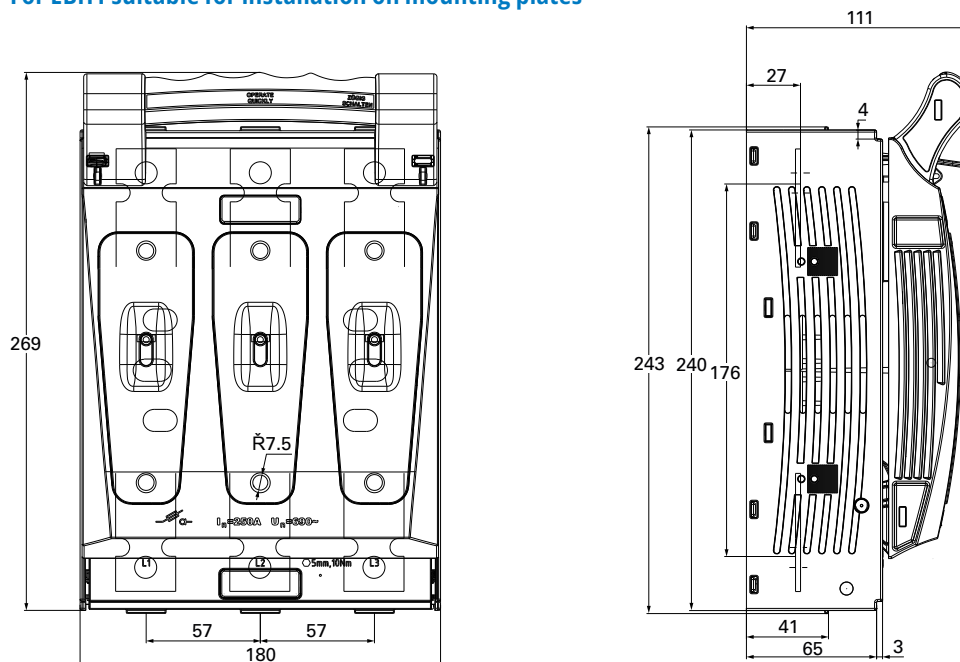


Without extended terminals

Dimensions and spacing holes for installation on mounting plates



For EBH1 suitable for installation on mounting plates

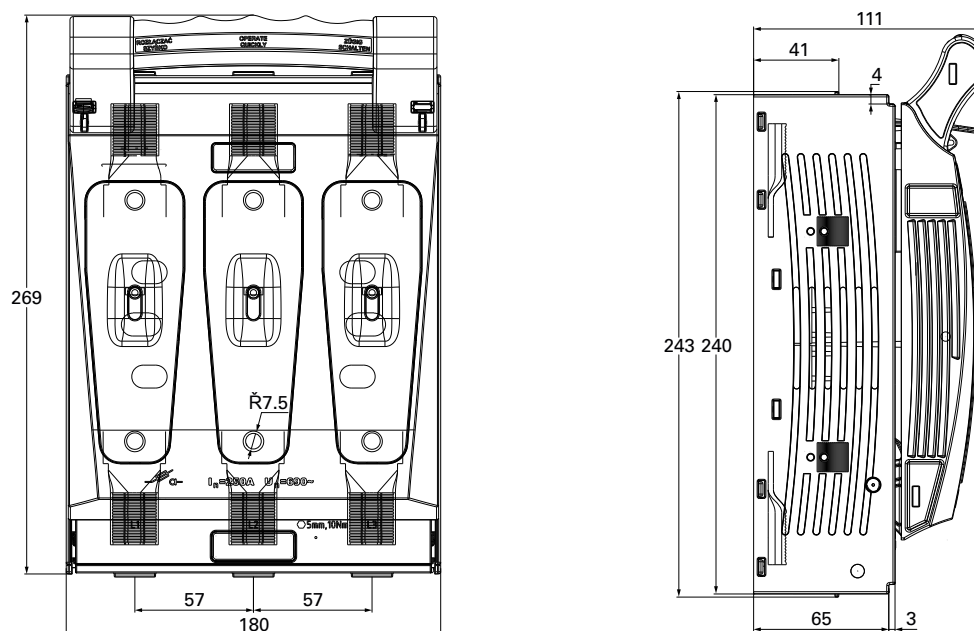


Screw terminals

[Data sheet 10293](#)

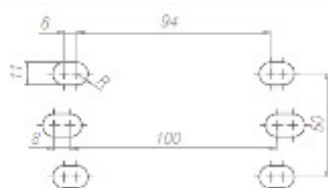
### EBH00 to 4 Horizontal fuse switch disconnectors

#### Dimensions (mm)

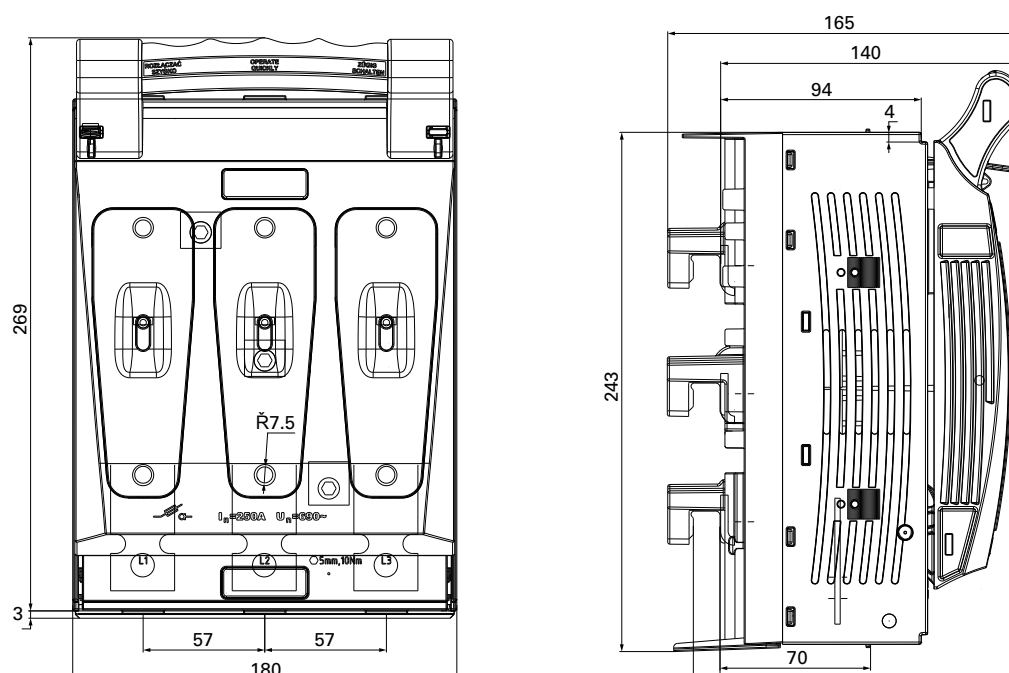


V Clamps

#### Dimensions and spacing holes for installation on mounting platess



#### For EBH1 suitable for installation on 60 mm busbar



[Data sheet 10293](#)

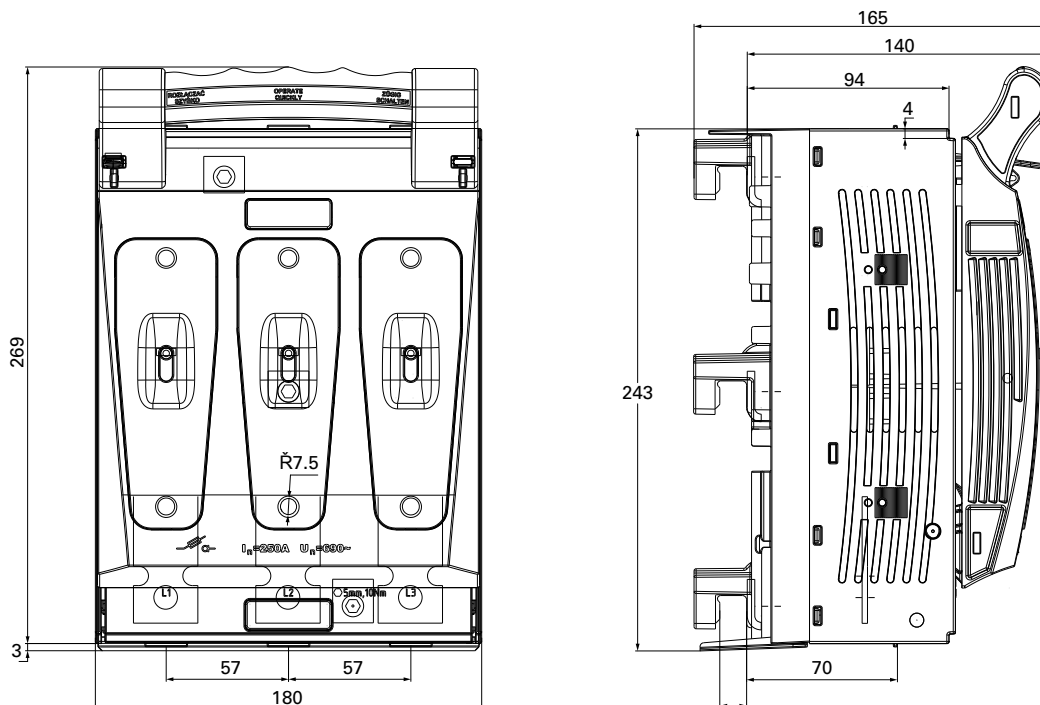
## NH Fuse gear

EBH00 to 4 Horizontal fuse switch disconnectors

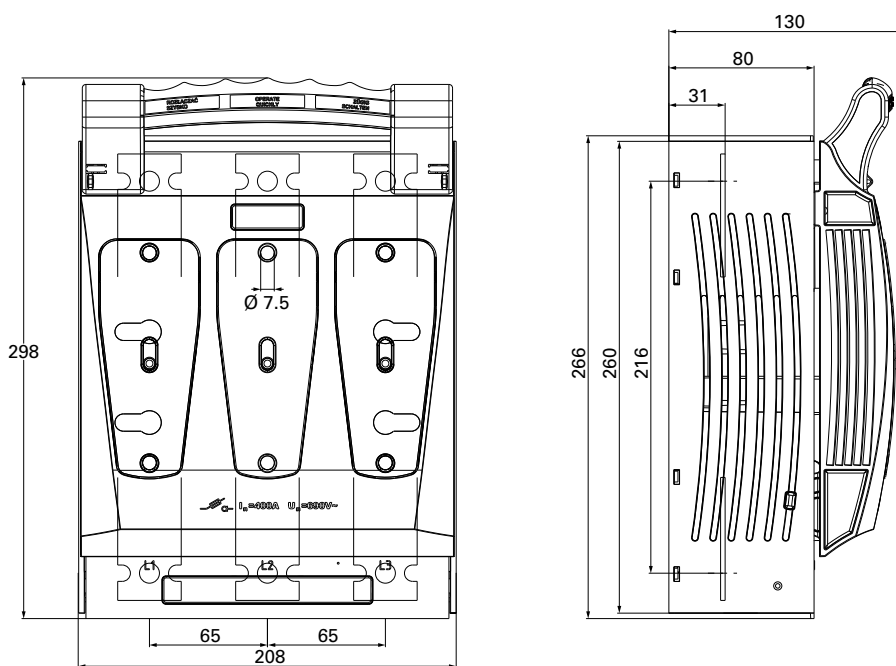
### EBH00 to 4 Horizontal fuse switch disconnectors

#### Dimensions (mm)

For EBH1 suitable for installation on 100 mm busbar



For EBH2 suitable for installation on mounting plate



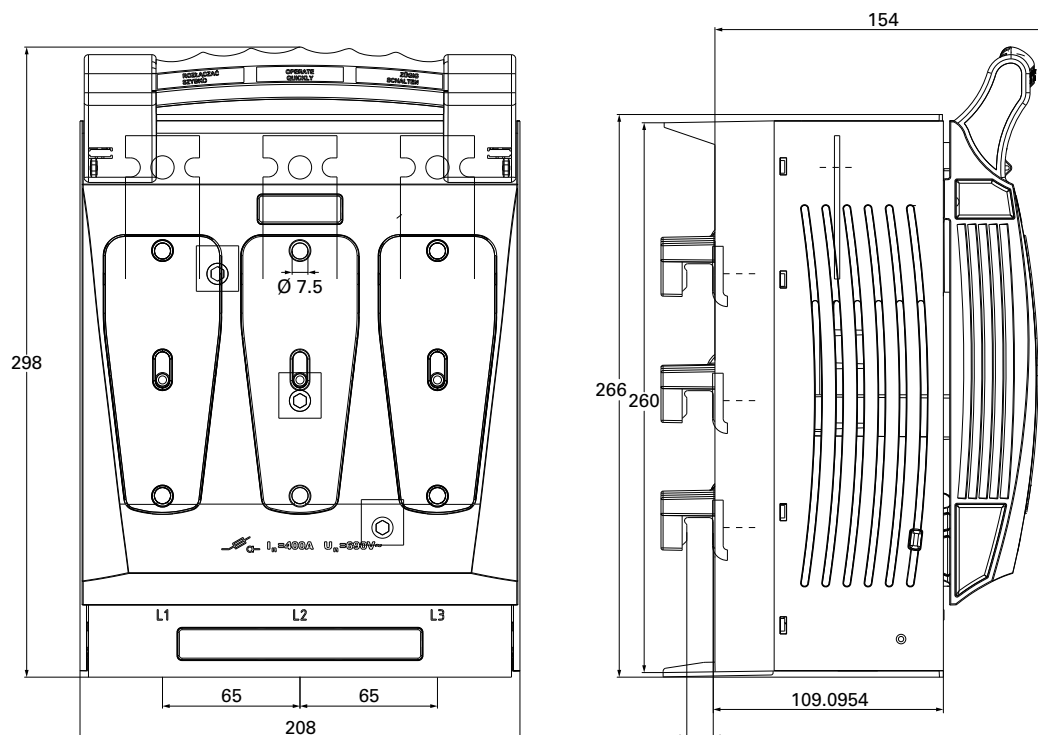
Screw Terminals

[Data sheet 10293](#)

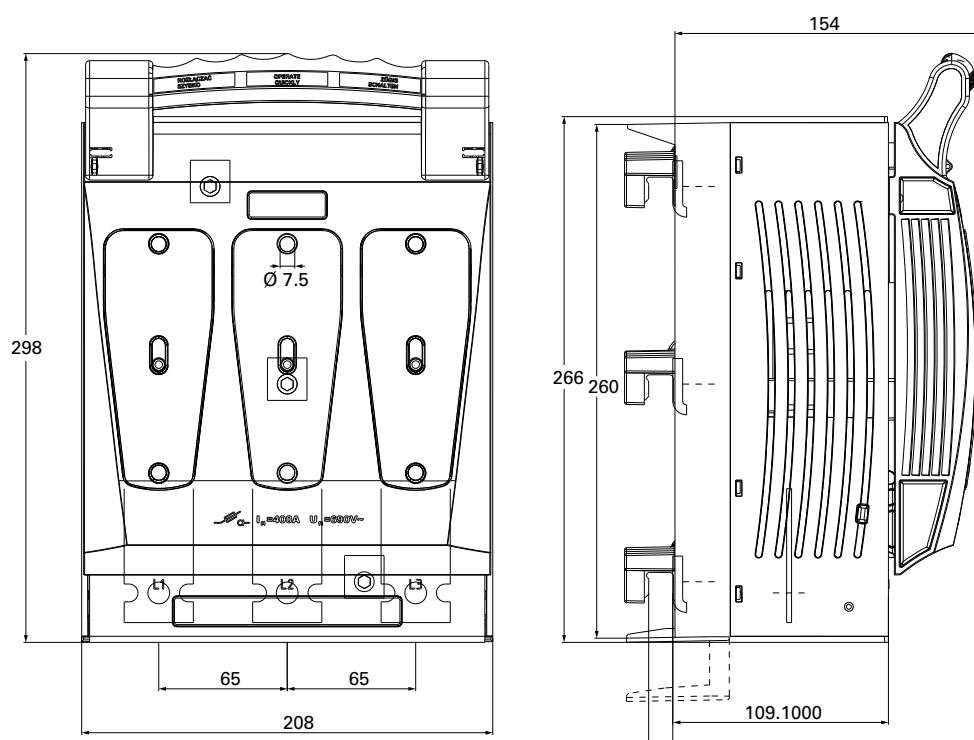
### EBH00 to 4 Horizontal fuse switch disconnectors

#### Dimensions (mm)

For EBH2 suitable for installation on 60 mm busbar



For EBH2 suitable for installation on 100 mm busbar



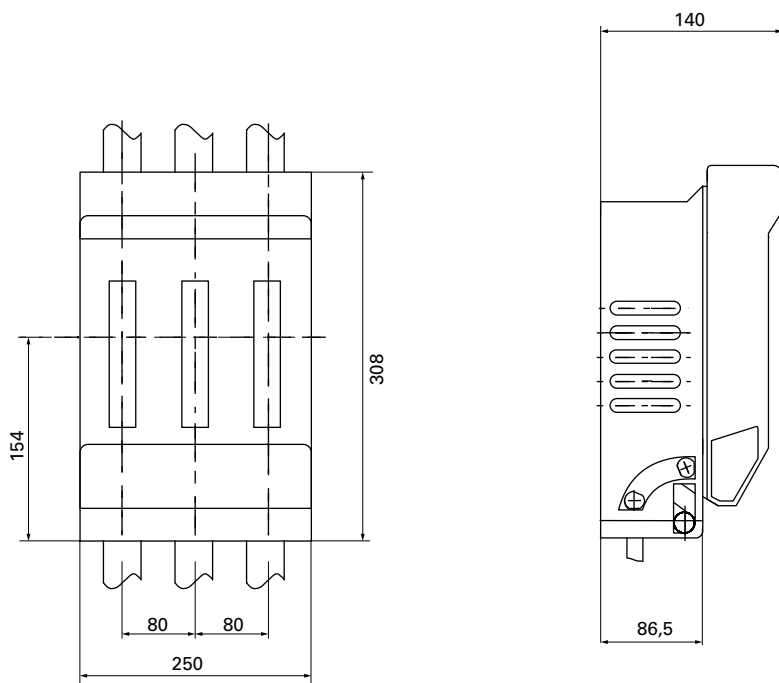
## NH Fuse gear

EBH00 to 4 Horizontal fuse switch disconnectors

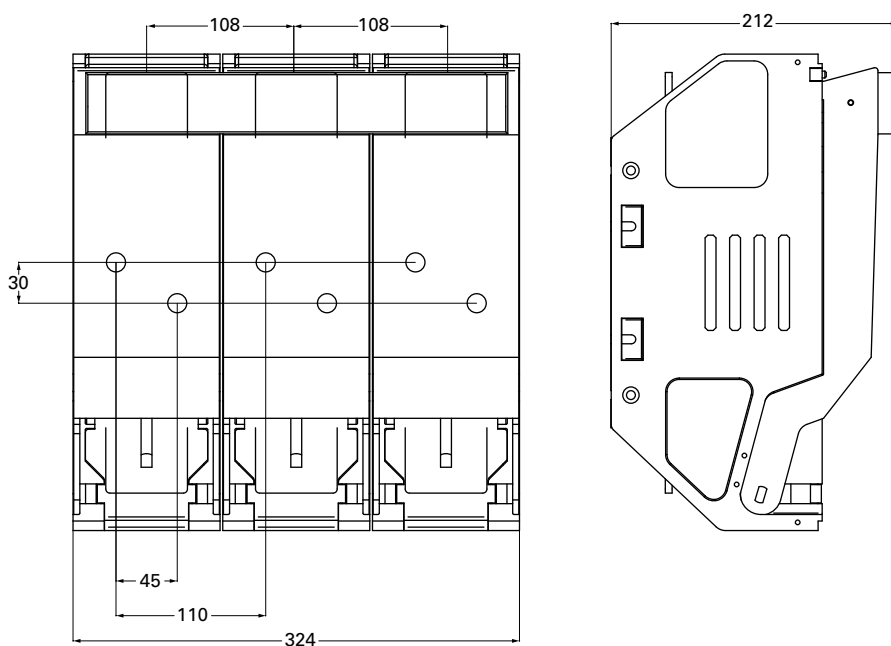
### EBH00 to 4 Horizontal fuse switch disconnectors

Dimensions - mm

#### EBH3



#### EBH4



[Data sheet 10293](#)

### Type D Time delay / fast acting / ultra rapid fuse links, bases and accessories

#### Specifications

##### Description

Class gG D fuse links for industrial and domestic applications.  
All these fuse links incorporate a visual indicator of fuse operation.

##### Technical data

Rated voltage: 500 V a.c.  
Rated current: 2 to 200 A  
Breaking capacity: 50 kA at 500 V a.c.  
Operating class: Time delay, fast acting and ultra rapid

##### Standard/agency information

IEC 60269 and VDE 0636

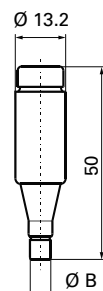
##### Product selection

#### D16, 500 V a.c., 2 to 25 A, size DI, time delay, fast acting and ultra rapid fuse links



| Catalog numbers | Type        | Size | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | To fit base | Compatible gauge ring | Gauge ring colour |
|-----------------|-------------|------|---------------|----------------------|---------------------|---------------|-------------|-----------------------|-------------------|
| 2D16            | Time delay  | DI   | 500 V a.c.    | 2                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 2GD16                 | Pink              |
| 4D16            | Time delay  | DI   | 500 V a.c.    | 4                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 4GD16                 | Brown             |
| 6D16            | Time delay  | DI   | 500 V a.c.    | 6                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 6GD16                 | Green             |
| 10D16           | Time delay  | DI   | 500 V a.c.    | 10                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 10GD16                | Red               |
| 16D16           | Time delay  | DI   | 500 V a.c.    | 16                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 16GD16                | Grey              |
| 20D16           | Time delay  | DI   | 500 V a.c.    | 20                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 20GD16                | Blue              |
| 25D16           | Time delay  | DI   | 500 V a.c.    | 25                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 25GD16                | Yellow            |
| 2D16Q           | Fast acting | DI   | 500 V a.c.    | 2                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 2GD16                 | Pink              |
| 4D16Q           | Fast acting | DI   | 500 V a.c.    | 4                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 4GD16                 | Brown             |
| 6D16Q           | Fast acting | DI   | 500 V a.c.    | 6                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 6GD16                 | Green             |
| 10D16Q          | Fast acting | DI   | 500 V a.c.    | 10                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 10GD16                | Red               |
| 16D16Q          | Fast acting | DI   | 500 V a.c.    | 16                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 16GD16                | Grey              |
| 20D16Q          | Fast acting | DI   | 500 V a.c.    | 20                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 20GD16                | Blue              |
| 25D16Q          | Fast acting | DI   | 500 V a.c.    | 25                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 25GD16                | Yellow            |
| 2D16R           | Ultra rapid | DI   | 500 V a.c.    | 2                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 2GD16                 | Pink              |
| 4D16R           | Ultra rapid | DI   | 500 V a.c.    | 4                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 4GD16                 | Brown             |
| 6D16R           | Ultra rapid | DI   | 500 V a.c.    | 6                    | 50 kA at 500 V a.c. | 10            | E16/DI      | 6GD16                 | Green             |
| 10D16R          | Ultra rapid | DI   | 500 V a.c.    | 10                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 10GD16                | Red               |
| 16D16R          | Ultra rapid | DI   | 500 V a.c.    | 16                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 16GD16                | Grey              |
| 20D16R          | Ultra rapid | DI   | 500 V a.c.    | 20                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 20GD16                | Blue              |
| 25D16R          | Ultra rapid | DI   | 500 V a.c.    | 25                   | 50 kA at 500 V a.c. | 10            | E16/DI      | 25GD16                | Yellow            |

#### Dimensions - mm



| Rated current (Amps) | B  |
|----------------------|----|
| 2                    | 6  |
| 4                    | 6  |
| 6                    | 6  |
| 10                   | 8  |
| 16                   | 10 |
| 20                   | 12 |
| 25                   | 14 |

[Data sheet: 4124](#)

# D and D0 Fuse links and accessories

Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

## Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

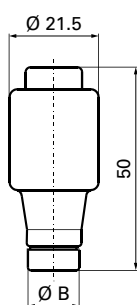
### Product selection

#### D27, 500 V a.c., 2 to 30 A, size DII, time delay, fast acting and ultra rapid fuse links



| Catalog numbers | Type        | Size | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | To fit base | Compatible gauge ring | Gauge ring colour |
|-----------------|-------------|------|---------------|----------------------|---------------------|---------------|-------------|-----------------------|-------------------|
| 2D27            | Time delay  | DII  | 500 V a.c.    | 2                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 2GD27                 | Pink              |
| 4D27            | Time delay  | DII  | 500 V a.c.    | 4                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 4GD27                 | Brown             |
| 6D27            | Time delay  | DII  | 500 V a.c.    | 6                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 6GD27                 | Green             |
| 10D27           | Time delay  | DII  | 500 V a.c.    | 10                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 10GD27                | Red               |
| 16D27           | Time delay  | DII  | 500 V a.c.    | 16                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 16GD27                | Grey              |
| 20D27           | Time delay  | DII  | 500 V a.c.    | 20                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 20GD27                | Blue              |
| 25D27           | Time delay  | DII  | 500 V a.c.    | 25                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 25GD27                | Yellow            |
| 2D27Q           | Fast acting | DII  | 500 V a.c.    | 2                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 2GD27Q                | Pink              |
| 4D27Q           | Fast acting | DII  | 500 V a.c.    | 4                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 4GD27Q                | Brown             |
| 6D27Q           | Fast acting | DII  | 500 V a.c.    | 6                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 6GD27Q                | Green             |
| 10D27Q          | Fast acting | DII  | 500 V a.c.    | 10                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 10GD27                | Red               |
| 16D27Q          | Fast acting | DII  | 500 V a.c.    | 16                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 16GD27                | Grey              |
| 20D27Q          | Fast acting | DII  | 500 V a.c.    | 20                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 20GD27                | Blue              |
| 25D27Q          | Fast acting | DII  | 500 V a.c.    | 25                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 25GD27                | Yellow            |
| 2D27R           | Ultra rapid | DII  | 500 V a.c.    | 2                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 2GD27                 | Pink              |
| 4D27R           | Ultra rapid | DII  | 500 V a.c.    | 4                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 4GD27                 | Brown             |
| 6D27R           | Ultra rapid | DII  | 500 V a.c.    | 6                    | 50 kA at 500 V a.c. | 25            | E27/DII     | 6GD27                 | Green             |
| 10D27R          | Ultra rapid | DII  | 500 V a.c.    | 10                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 10GD27                | Red               |
| 16D27R          | Ultra rapid | DII  | 500 V a.c.    | 16                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 16GD27                | Grey              |
| 20D27R          | Ultra rapid | DII  | 500 V a.c.    | 20                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 20GD27                | Blue              |
| 25D27R          | Ultra rapid | DII  | 500 V a.c.    | 25                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 25GD27                | Yellow            |
| 30D27R          | Ultra rapid | DII  | 500 V a.c.    | 30                   | 50 kA at 500 V a.c. | 25            | E27/DII     | 30GD27                | Black             |

### Dimensions - mm



| Rated current (Amps) | B  |
|----------------------|----|
| 2                    | 6  |
| 4                    | 6  |
| 6                    | 6  |
| 10                   | 8  |
| 16                   | 10 |
| 20                   | 12 |
| 25                   | 14 |
| 30                   | 14 |

Data sheet: [4124](#)

## D and D0 Fuse links and accessories

Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

### Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

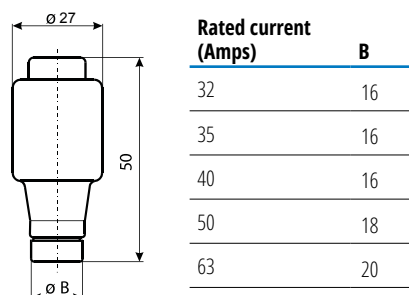
#### Product selection

#### D33, 500 V a.c., 32 to 63 A, size DIII, time delay, fast acting and ultra rapid fuse links



| Catalog numbers | Type        | Size | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | To fit base | Compatible gauge ring | Gauge ring colour |
|-----------------|-------------|------|---------------|----------------------|---------------------|---------------|-------------|-----------------------|-------------------|
| 32D33           | Time delay  | DII  | 500 V a.c.    | 32                   | 50 kA at 500 V a.c. | 25            | E33         | 35GD33                | Black             |
| 35D33           | Time delay  | DII  | 500 V a.c.    | 35                   | 50 kA at 500 V a.c. | 25            | E33         | 35GD33                | Black             |
| 40D33           | Time delay  | DII  | 500 V a.c.    | 40                   | 50 kA at 500 V a.c. | 25            | E33         | 35GD33                | Black             |
| 50D33           | Time delay  | DII  | 500 V a.c.    | 50                   | 50 kA at 500 V a.c. | 25            | E33         | 50GD33                | White             |
| 63D33           | Time delay  | DII  | 500 V a.c.    | 63                   | 50 kA at 500 V a.c. | 25            | E33         | 63GD33                | Copper            |
| 35D33Q          | Fast acting | DII  | 500 V a.c.    | 35                   | 50 kA at 500 V a.c. | 25            | E33         | 35GD33                | Black             |
| 50D33Q          | Fast acting | DII  | 500 V a.c.    | 50                   | 50 kA at 500 V a.c. | 25            | E33         | 50GD33                | White             |
| 63D33Q          | Fast acting | DII  | 500 V a.c.    | 63                   | 50 kA at 500 V a.c. | 25            | E33         | 63GD33                | Copper            |
| 35D33R          | Ultra rapid | DII  | 500 V a.c.    | 35                   | 50 kA at 500 V a.c. | 25            | E33         | 35GD33                | Black             |
| 50D33R          | Ultra rapid | DII  | 500 V a.c.    | 50                   | 50 kA at 500 V a.c. | 25            | E33         | 50GD33                | White             |
| 63D33R          | Ultra rapid | DII  | 500 V a.c.    | 63                   | 50 kA at 500 V a.c. | 25            | E33         | 63GD33                | Copper            |

#### Dimensions - mm

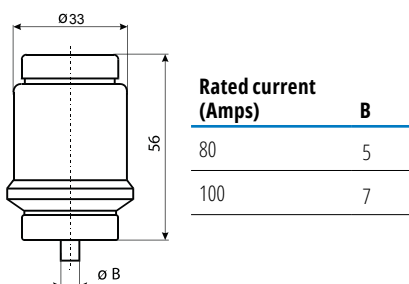


#### D125, 500 V a.c., 80 and 100 A, size DV, time delay, fast acting and ultra rapid fuse links



| Catalog numbers | Type        | Size | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | To fit base | Compatible gauge ring | Gauge ring colour |
|-----------------|-------------|------|---------------|----------------------|---------------------|---------------|-------------|-----------------------|-------------------|
| 80D125          | Time delay  | DIV  | 500 V a.c.    | 80                   | 50 kA at 500 V a.c. | 10            | R1 1/4"     | 80GD125               | Silver            |
| 100D125         | Time delay  | DIV  | 500 V a.c.    | 100                  | 50 kA at 500 V a.c. | 10            | R1 1/4"     | 100GD125              | Red               |
| 80D125Q         | Fast acting | DIV  | 500 V a.c.    | 80                   | 50 kA at 500 V a.c. | 10            | R1 1/4"     | 80GD125               | Silver            |
| 100D125Q        | Fast acting | DIV  | 500 V a.c.    | 100                  | 50 kA at 500 V a.c. | 10            | R1 1/4"     | 100GD125              | Red               |
| 80D125R         | Ultra rapid | DIV  | 500 V a.c.    | 80                   | 50 kA at 500 V a.c. | 10            | R1 1/4"     | 80GD125               | Silver            |
| 100D125R        | Ultra rapid | DIV  | 500 V a.c.    | 100                  | 50 kA at 500 V a.c. | 10            | R1 1/4"     | 100GD125              | Red               |

#### Dimensions - mm



Data sheet: [4124](#)

## D and D0 Fuse links and accessories

Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

### Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

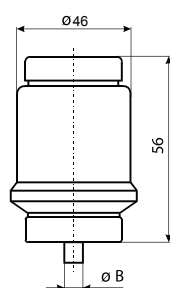
#### Product selection

D200, 500 V a.c., 125 to 200 A, size DV, time delay, fast acting and ultra rapid fuse links



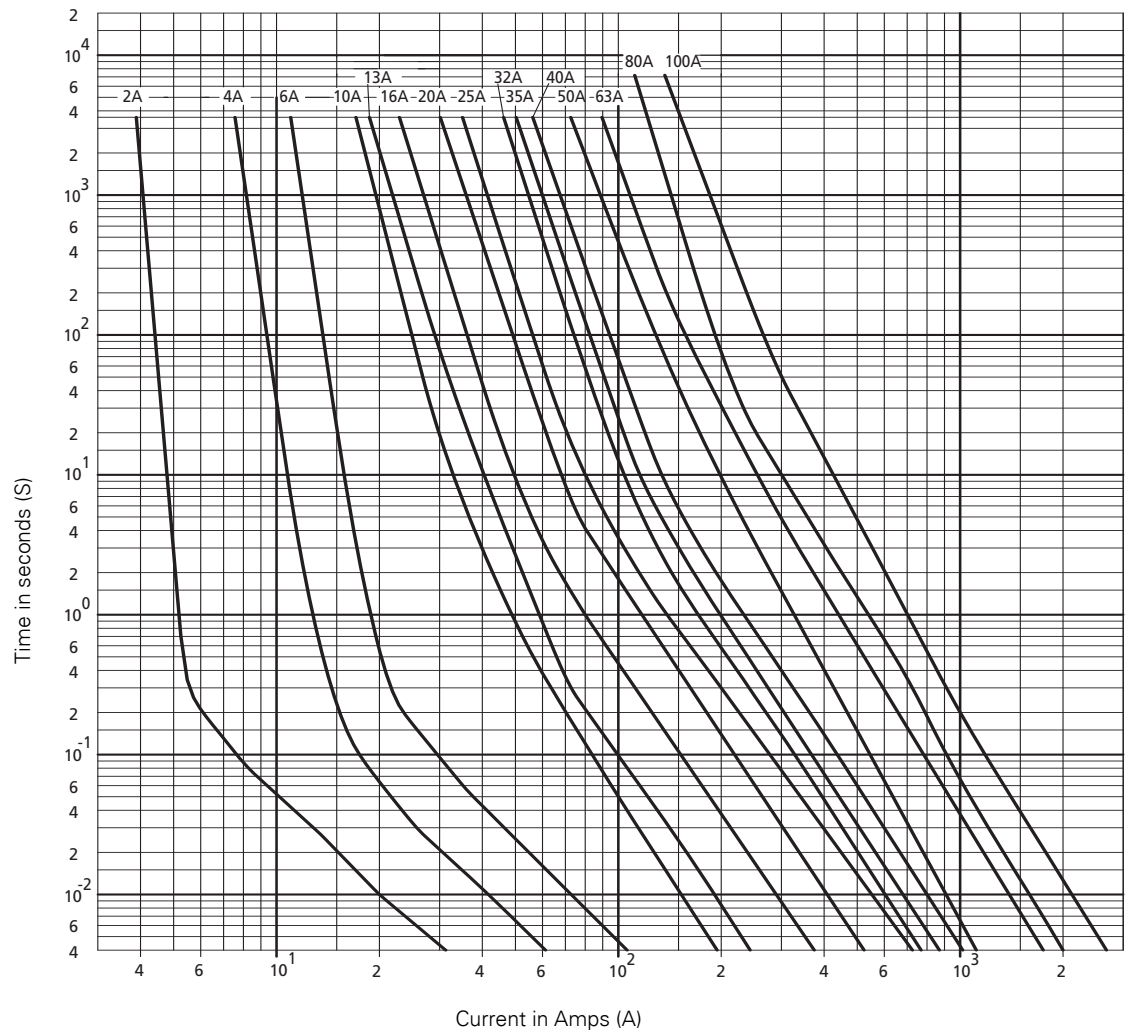
| Catalog numbers | Type        | Size | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | To fit base | Compatible gauge ring | Gauge ring colour |
|-----------------|-------------|------|---------------|----------------------|---------------------|---------------|-------------|-----------------------|-------------------|
| 125D200         | Time delay  |      | 500 V a.c.    | 125                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Yellow            |
| 160D200         | Time delay  |      | 500 V a.c.    | 160                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Copper            |
| 200D200         | Time delay  |      | 500 V a.c.    | 200                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Blue              |
| 125D200Q        | Fast acting |      | 500 V a.c.    | 125                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Yellow            |
| 160D200Q        | Fast acting |      | 500 V a.c.    | 160                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Copper            |
| 200D200Q        | Fast acting |      | 500 V a.c.    | 200                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Blue              |
| 125D200R        | Ultra rapid |      | 500 V a.c.    | 125                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Yellow            |
| 160D200R        | Ultra rapid |      | 500 V a.c.    | 160                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Copper            |
| 200D200R        | Ultra rapid |      | 500 V a.c.    | 200                  | 50 kA at 500 V a.c. | 10            | DV          | R2                    | Blue              |

#### Dimensions - mm



| Rated current (Amps) | B |
|----------------------|---|
| 125                  | 5 |
| 160                  | 7 |
| 200                  | 9 |

Time-current curve



# D and D0 Fuse links and accessories

Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

## Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

### Product selection

#### Fuse base

| Catalog number | Current (Amps) | Mounting  | Number of poles | To fit fuse base | Rated current (Amps) | Pack qty |
|----------------|----------------|-----------|-----------------|------------------|----------------------|----------|
| TFD27          | 25             | E27 Screw | 3               | E27              | 25                   | 4        |
| TFD33          | 63             | E33 Screw | 3               | E33              | 63                   | 6        |
| SFRD27         | 25             | DIN-Rail  | 1               | E27              | 25                   | 15       |
| TFRD27         | 25             | DIN-Rail  | 3               | E27              | 25                   | 4        |
| SFRD33         | 63             | DIN-Rail  | 1               | E33              | 63                   | 15       |
| TFRD33         | 63             | DIN-Rail  | 3               | E33              | 63                   | 6        |



SFRD

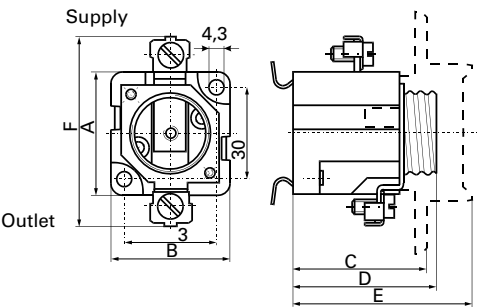


TFD/TFRD

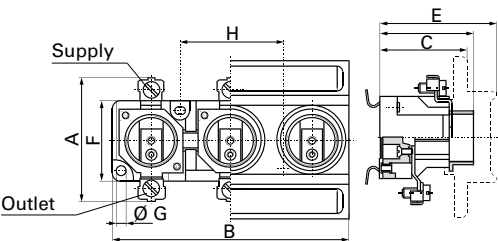
#### Fuse bases for type D fuse links

##### Dimensions - mm

###### SFRD



###### TFD and TFRD



## D and D0 Fuse links and accessories

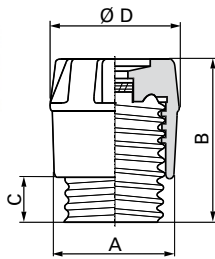
Type D - Time delay / fast acting / ultra rapid fuse links, bases and accessories

### Fuse carrier and Gauge pieces

| Catalog numbers | Type             | Size | Fuse base type | Rated current (Amps) | Pack quantity | To fit fuse links |
|-----------------|------------------|------|----------------|----------------------|---------------|-------------------|
| CD27            | Fuse carrier/cap | N/A  | E27            | 25                   | 50            | D27               |
| CD33            | Fuse carrier/cap | N/A  | E33            | 63                   | 6             | D33               |
| 2GD27           | Gauge piece      | DII  | E27            | 2                    | 25            | D27               |
| 4GD27           | Gauge piece      | DII  | E27            | 4                    | 25            | D27               |
| 6GD27           | Gauge piece      | DII  | E27            | 6                    | 25            | D27               |
| 10GD27          | Gauge piece      | DII  | E27            | 10                   | 25            | D27               |
| 16GD27          | Gauge piece      | DII  | E27            | 16                   | 25            | D27               |
| 20GD27          | Gauge piece      | DII  | E27            | 20                   | 25            | D27               |
| 25GD27          | Gauge piece      | DII  | E27            | 25                   | 25            | D27               |
| 35GD33          | Gauge piece      | DIII | E33            | 35                   | 25            | D33               |
| 50GD33          | Gauge piece      | DIII | E33            | 50                   | 25            | D33               |
| 63GD33          | Gauge piece      | DIII | E33            | 63                   | 25            | D33               |

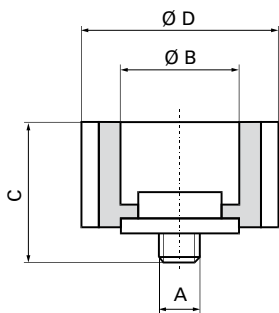
### Dimensions - mm

#### Fuse carrier/cap



| Rated current (Amps) | A   | B  | C  | D  |
|----------------------|-----|----|----|----|
| CD27                 | E27 | 44 | 12 | 34 |
| CD33                 | E33 | 44 | 12 | 43 |

#### Gauge piece



| Rated current (Amps) | A     | B    | C  | D  |
|----------------------|-------|------|----|----|
| 2GD27                | 3/16" | 6.5  | 17 | 24 |
| 4GD27                | 3/16" | 6.5  | 17 | 24 |
| 6GD27                | 3/16" | 6.5  | 17 | 24 |
| 10GD27               | 3/16" | 8.5  | 17 | 24 |
| 16GD27               | 3/16" | 10.5 | 17 | 24 |
| 20GD27               | 3/16" | 12.5 | 17 | 24 |
| 25GD27               | 3/16" | 14.5 | 17 | 24 |
| 35GD33               | 3/16" | 16.5 | 17 | 30 |
| 50GD33               | 3/16" | 18.5 | 17 | 30 |
| 63GD33               | 3/16" | 20.5 | 17 | 30 |

# D and D0 Fuse links and accessories

Type D0 - Time delay / ultra rapid fuse links, bases and accessories

## Type D0 - Time delay / ultra rapid fuse links, bases and accessories

### Specifications

#### Description

Class gG DO fuse links for industrial and domestic applications.  
All these fuse links incorporate a visual indicator of fuse operation.

#### Standard/agency information

IEC 60269 and VDE 0636

#### Technical data

Rated voltage: 400 V a.c.  
Rated current: 2 to 100 A  
Breaking capacity: 50 kA at 400 V a.c.  
Operating class: Time delay and ultra rapid

#### Product selection

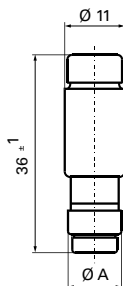
##### NZ01, 400 V a.c., 2 to 16 A, size D01, time delay and ultra rapid fuse links



| Catalog numbers | Type        | Colour | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | Size |
|-----------------|-------------|--------|---------------|----------------------|---------------------|---------------|------|
| 2NZ01           | Time delay  | Pink   | 400 V a.c.    | 2                    | 50 kA at 400 V a.c. | 10            | D01  |
| 4NZ01           | Time delay  | Brown  | 400 V a.c.    | 4                    | 50 kA at 400 V a.c. | 10            | D01  |
| 6NZ01           | Time delay  | Green  | 400 V a.c.    | 6                    | 50 kA at 400 V a.c. | 10            | D01  |
| 10NZ01          | Time delay  | Red    | 400 V a.c.    | 10                   | 50 kA at 400 V a.c. | 10            | D01  |
| 16NZ01          | Time delay  | Grey   | 400 V a.c.    | 16                   | 50 kA at 400 V a.c. | 10            | D01  |
| 2NZ01R          | Ultra rapid | Pink   | 400 V a.c.    | 2                    | 50 kA at 400 V a.c. | 10            | D01  |
| 4NZ01R          | Ultra rapid | Brown  | 400 V a.c.    | 4                    | 50 kA at 400 V a.c. | 10            | D01  |
| 6NZ01R          | Ultra rapid | Green  | 400 V a.c.    | 6                    | 50 kA at 400 V a.c. | 10            | D01  |
| 10NZ01R         | Ultra rapid | Red    | 400 V a.c.    | 10                   | 50 kA at 400 V a.c. | 10            | D01  |
| 16NZ01R         | Ultra rapid | Grey   | 400 V a.c.    | 16                   | 50 kA at 400 V a.c. | 10            | D01  |

#### Dimensions - mm

##### D01



| Rated current (Amps) | A   |
|----------------------|-----|
| 2                    | 7.3 |
| 4                    | 7.3 |
| 6                    | 7.3 |
| 10                   | 8.5 |
| 16                   | 9.7 |

##### NZ02, 400 V a.c., 20 to 63 A, size D02, time delay and ultra rapid fuse links



| Catalog numbers | Type        | Colour | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | Size |
|-----------------|-------------|--------|---------------|----------------------|---------------------|---------------|------|
| 20NZ02          | Time delay  | Blue   | 400 V a.c.    | 20                   | 50 kA at 400 V a.c. | 10            | D02  |
| 25NZ02          | Time delay  | Yellow | 400 V a.c.    | 25                   | 50 kA at 400 V a.c. | 10            | D02  |
| 35NZ02          | Time delay  | Black  | 400 V a.c.    | 35                   | 50 kA at 400 V a.c. | 10            | D02  |
| 50NZ02          | Time delay  | White  | 400 V a.c.    | 50                   | 50 kA at 400 V a.c. | 10            | D02  |
| 63NZ02          | Time delay  | Copper | 400 V a.c.    | 63                   | 50 kA at 400 V a.c. | 10            | D02  |
| 20NZ02R         | Ultra rapid | Blue   | 400 V a.c.    | 20                   | 50 kA at 400 V a.c. | 10            | D02  |
| 25NZ02R         | Ultra rapid | Yellow | 400 V a.c.    | 25                   | 50 kA at 400 V a.c. | 10            | D02  |
| 35NZ02R         | Ultra rapid | Black  | 400 V a.c.    | 35                   | 50 kA at 400 V a.c. | 10            | D02  |
| 50NZ02R         | Ultra rapid | White  | 400 V a.c.    | 50                   | 50 kA at 400 V a.c. | 10            | D02  |
| 63NZ02R         | Ultra rapid | Copper | 400 V a.c.    | 63                   | 50 kA at 400 V a.c. | 10            | D02  |

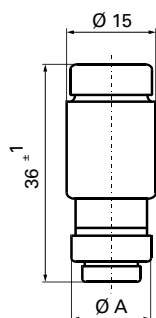
## D and D0 Fuse links and accessories

Type D0 - Time delay / ultra rapid fuse links, bases and accessories

### Type D0 - Time delay / ultra rapid fuse links, bases and accessories

NZ02, 20 to 63 A, size D02, time delay and ultra rapid fuse links

#### D02



| Rated current (Amps) | A    |
|----------------------|------|
| 20                   | 10.9 |
| 25                   | 12.1 |
| 35                   | 13.3 |
| 50                   | 14.5 |
| 63                   | 15.9 |

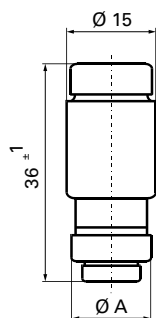


NZ03, 400 V a.c., 80 and 100 A, size D03, time delay fuse links

| Catalog numbers | Type       | Colour | Rated voltage | Rated current (Amps) | Breaking capacity   | Pack quantity | To fit base |
|-----------------|------------|--------|---------------|----------------------|---------------------|---------------|-------------|
| 80NZ03          | Time delay | Silver | 400 V a.c.    | 80                   | 50 kA at 400 V a.c. | 10            | D03         |
| 100NZ03         | Time delay | Red    | 400 V a.c.    | 100                  | 50 kA at 400 V a.c. | 10            | D03         |

#### Dimensions - mm

#### D03

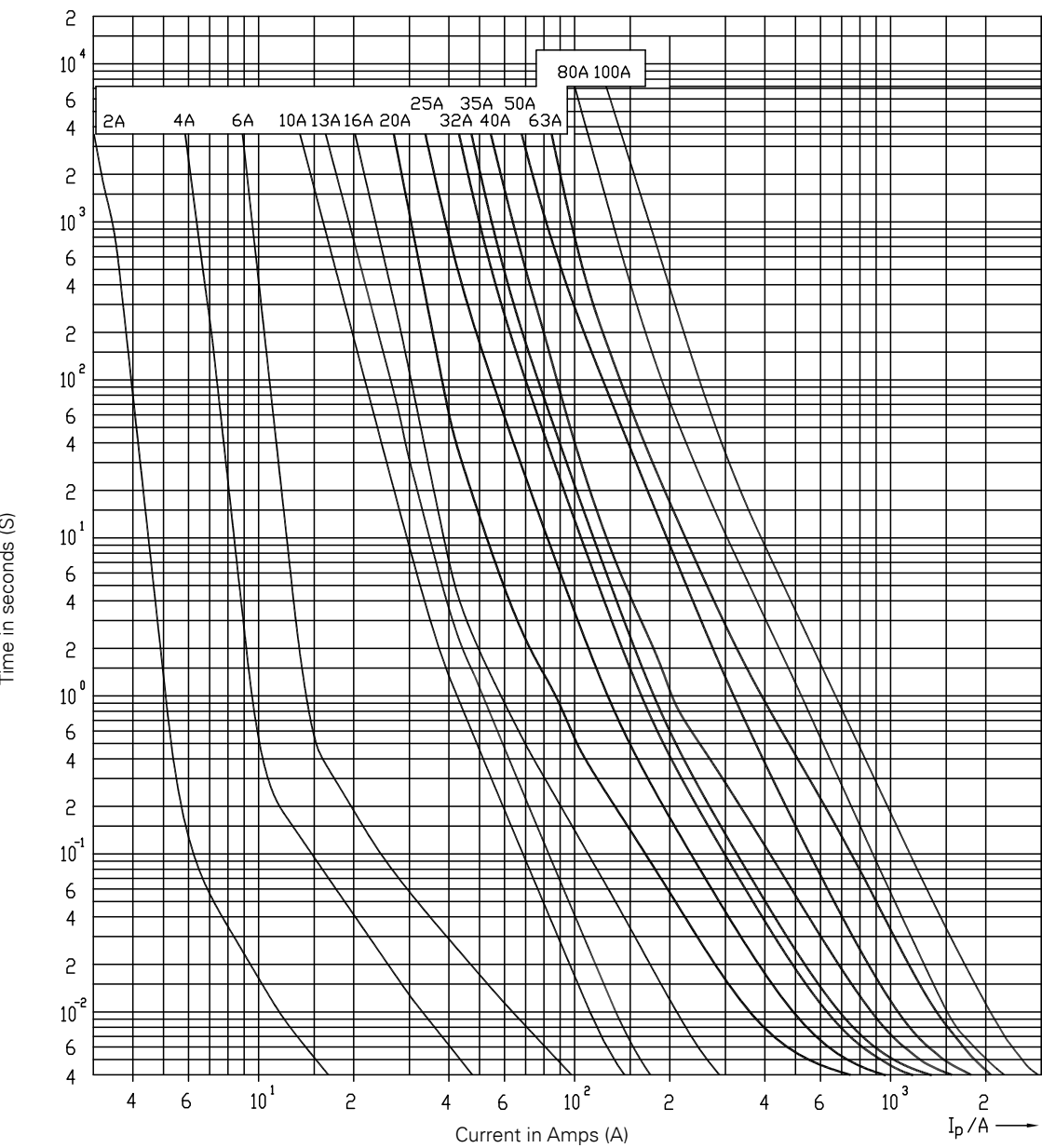


| Rated current (Amps) | A    |
|----------------------|------|
| 80                   | 21.4 |
| 100                  | 21.6 |

# D and D0 Fuse links and accessories

Time-current curve

## Time-current curve



Data sheet: [4124](#)

## D and D0 Fuse links and accessories

Type D0 - Time delay / ultra rapid fuse links, bases and accessories

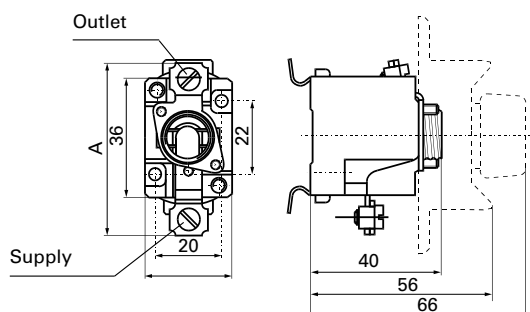
### Type D0 - Time delay / ultra rapid fuse links, bases and accessories

#### Single pole fuse base for type D0 fuse links



| Catalog number | Current (Amps) | Screw | With protection cover | Without protection cover | DIN-Rail mounting | Screw mounting | Connections |        | Cross-section of connecting lead (mm <sup>2</sup> ) | Dim (A) mm | Pack qty |
|----------------|----------------|-------|-----------------------|--------------------------|-------------------|----------------|-------------|--------|-----------------------------------------------------|------------|----------|
|                |                |       |                       |                          |                   |                | Outlet      | Supply |                                                     |            |          |
| FRN01C         | 16             | E14   | x                     |                          | x                 |                | M4          | M4     | 1.5-4                                               | 53         | 15       |
| FN01C          | 16             | E14   | x                     |                          |                   | x              | M4          | M4     | 1.5-4                                               | 53         | 15       |
| FRN02C         | 63             | E18   | x                     |                          | x                 |                | 2 x M5      | 2 x M5 | 2.5-25                                              | 57         | 15       |
| FN02C          | 63             | E18   | x                     |                          |                   | x              | 2 x M5      | 2 x M5 | 2.5-25                                              | 57         | 15       |
| FRN02C-A       | 63             | E18   | x                     |                          | x                 |                | 2 x M5      | M6     | 2.5-25                                              | 57         | 15       |
| FRN02C-SA      | 63             | E18   | x                     |                          |                   | x              | 2 x M5      | M6     | 2.5-25                                              | 57         | 15       |
| FRN01-B        | 16             | E14   |                       | x                        | x                 |                | M4          | M4     | 1.5-4                                               | 53         | 15       |
| FRN01-SB       | 16             | E14   |                       | x                        |                   | x              | M4          | M4     | 1.5-4                                               | 53         | 15       |
| FRN02-D        | 63             | E18   |                       | x                        | x                 |                | 2 x M5      | 2 x M5 | 2.5-25                                              | 57         | 15       |
| FRN02-SD       | 63             | E18   |                       | x                        |                   | x              | 2 x M5      | 2 x M5 | 2.5-25                                              | 57         | 15       |
| FRN02-E        | 63             | E18   |                       | x                        | x                 |                | 2 x M5      | M6     | 2.5-25                                              | 57         | 15       |
| FRN02-SE       | 63             | E18   |                       | x                        |                   | x              | 2 x M5      | M6     | 2.5-25                                              | 57         | 15       |

#### Dimensions - mm



# D and D0 Fuse links and accessories

Type D0 - Time delay / ultra rapid fuse links, bases and accessories

## Type D0 - Time delay / ultra rapid fuse links, bases and accessories

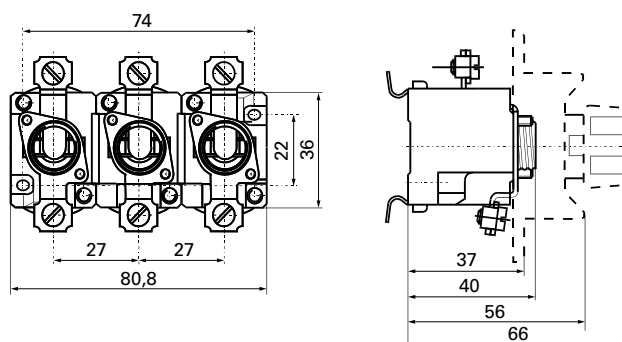
Three pole fuse base for type D0 fuse links

### Product selection



| Catalog number | Current (Amps) | Screw | With protection cover | Without protection cover | DIN-Rail mounting | Screw mounting | Connections |        | Cross-section of connecting lead (mm²) | Dim (A) (mm) | Pack qty |
|----------------|----------------|-------|-----------------------|--------------------------|-------------------|----------------|-------------|--------|----------------------------------------|--------------|----------|
|                |                |       |                       |                          |                   |                | Outlet      | Supply |                                        |              |          |
| TFRN01C        | 16             | E14   | x                     |                          | x                 |                | M4          | M4     | 1.5-4                                  | 53           | 5        |
| TFN01C         | 16             | E14   | x                     |                          |                   | x              | M4          | M4     | 1.5-4                                  | 53           | 5        |
| TFRN02C        | 63             | E18   | x                     |                          | x                 |                | 2 x M5      | 2 x M5 | 2.5-25                                 | 57           | 5        |
| TFN02C         | 63             | E18   | x                     |                          |                   | x              | 2 x M5      | 2 x M5 | 2.5-25                                 | 57           | 5        |
| TFRN02CA       | 63             | E18   | x                     |                          | x                 |                | 2 x M5      | M6     | 2.5-25                                 | 57           | 5        |
| TFRN02C-SA     | 63             | E18   | x                     |                          |                   | x              | 2 x M5      | M6     | 2.5-25                                 | 57           | 5        |
| TFRN01-B       | 16             | E14   |                       | x                        | x                 |                | M4          | M4     | 1.5-4                                  | 53           | 5        |
| TFRN01-SB      | 16             | E14   |                       | x                        |                   | x              | M4          | M4     | 1.5-4                                  | 53           | 5        |
| TFRN02-D       | 63             | E18   |                       | x                        | x                 |                | 2 x M5      | 2 x M5 | 2.5-25                                 | 57           | 5        |
| TFRN02-SD      | 63             | E18   |                       | x                        |                   | x              | 2 x M5      | 2 x M5 | 2.5-25                                 | 57           | 5        |
| TFRN02-E       | 63             | E18   |                       | x                        | x                 |                | 2 x M5      | M6     | 2.5-25                                 | 57           | 5        |
| TFRN02-SE      | 63             | E18   |                       | x                        |                   | x              | 2 x M5      | M6     | 2.5-25                                 | 57           | 5        |

### Dimensions - mm



## Type D0 - Time delay / ultra rapid fuse links, bases and accessories

### Product selection

#### Fuse accessories for type D0 fuse links

| Catalog numbers | Type             | Fuse base type | Pack quantity | To fit fuse links |
|-----------------|------------------|----------------|---------------|-------------------|
| CN01            | Fuse carrier/cap | E14            | 20            | D01               |
| CN02            | Fuse carrier/cap | E18            | 20            | D02               |
| CN03            | Fuse carrier/cap | N/A            | 20            | D03               |
| 2GN01           | Gauge piece      | E14            | 50            | D01               |
| 4GN01           | Gauge piece      | E14            | 50            | D01               |
| 6GN01           | Gauge piece      | E14            | 50            | D01               |
| 10GN01          | Gauge piece      | E14            | 50            | D01               |
| 2GN02*          | Gauge piece      | E18            | 50            | D02               |
| 4GN02*          | Gauge piece      | E18            | 50            | D02               |
| 6GN02*          | Gauge piece      | E18            | 50            | D02               |
| 10GN02*         | Gauge piece      | E18            | 50            | D02               |
| 16GN02*         | Gauge piece      | E18            | 50            | D02               |
| 20GN02          | Gauge piece      | E18            | 50            | D02               |
| 25GN02          | Gauge piece      | E18            | 50            | D02               |
| 35GN02          | Gauge piece      | E18            | 50            | D02               |
| 50GN02          | Gauge piece      | E18            | 50            | D02               |
| DO-GPK          | Gauge key piece  | N/A            | 20            | N/A               |
| DO-SFH          | Special holder   | N/A            | 25            | N/A               |

\* For using fuse links D01 and fuse bases D02



Fuse carrier/cap



Gauge piece key

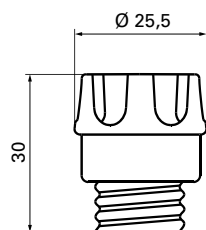


Gauge piece

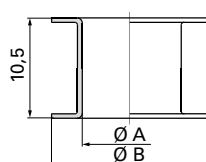


Special holder

#### Dimensions - mm



Fuse carrier/cap



Gauge piece

| Catalog numbers | A    | B    |
|-----------------|------|------|
| 2GN01           | 7.9  | 12   |
| 4GN01           | 7.9  | 12   |
| 6GN01           | 7.9  | 12   |
| 10GN01          | 9.1  | 12   |
| 2GN02           | 7.9  | 16.6 |
| 4GN02           | 7.9  | 16.6 |
| 6GN02           | 7.9  | 16.6 |
| 10GN02          | 9.1  | 16.6 |
| 16GN02          | 10.3 | 16.6 |
| 20GN02          | 11.5 | 16.6 |
| 25GN02          | 12.7 | 16.6 |
| 35GN02          | 13.9 | 16.6 |
| 50GN02          | 15.1 | 16.6 |

## Cross reference

### Low voltage BS88 fuses

| Bussmann series | SSD | NSD               | ESD               | SMD | STD | NITD                | AAO     | BAO     | CEO     | OSD |
|-----------------|-----|-------------------|-------------------|-----|-----|---------------------|---------|---------|---------|-----|
| Lawson          | SS  | NS                | ES                | MD  | LST | NIT                 | TIA     | TIS     | TCP     | TIS |
| MEM             | SS  | SN2               | SP                | -   | LS  | SA2                 | SB3     | SB4     | SD5     | SO  |
| Mersen          |     | BNS42V/<br>BSS55V | BES42V/<br>BES55V |     |     | BNIT42V/<br>BNIT55V | BTIA42V | BTIS42V | BTCP42V |     |



#### General industrial fuse links

| BS88 size reference    | E1  | F1  | F2  |     |     | A1  | A2  | A3  | A4  |     |
|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| IEC Utilisation class  | gG  | gG  | gG  | gG  | gG  | gG  | gG  | gG  | gG  | gG  |
| Rated voltage (V a.c.) | 240 | 550 | 550 | 415 | 240 | 550 | 550 | 500 | 500 | 500 |
| Rated current (Amps)   | 2   | 2   | 2   | 2   | 2   | 2   | 2   | 40  | 32  | 80  |
|                        | 4   | 4   | 4   | 4   | 4   | 4   | 4   | 50  | 40  | 100 |
|                        | 6   | 6   | 6   | 6   | 6   | 6   | 6   | 63  | 50  |     |
|                        | 10  | 10  | 10  | 10  | 10  | 10  | 10  |     | 63  |     |
|                        | 16  | 16  | 16  | 16  | 16  | 16  | 16  |     | 80  |     |
|                        | 20  | 20  | 20  | 20  | 20  | 20  | 20  |     | 100 |     |
|                        | 25  | 25  | 25  | 25  | 25  | 25  | 25  |     |     |     |
|                        | 32  | 32  | 32  | 32  | 32  | 32  | 32  |     |     |     |
|                        |     |     | 40  |     |     |     |     |     |     |     |
|                        |     |     | 50  |     |     |     |     |     |     |     |
|                        |     |     | 63  |     |     |     |     |     |     |     |

#### Motor fuses

| IEC Utilisation category | gM    | gM     |  |  | gM    | gM    | gM     | gM      | gM      |
|--------------------------|-------|--------|--|--|-------|-------|--------|---------|---------|
| Rated voltage (V a.c.)   | 415   | 415    |  |  | 415   | 500   | 500    | 415     | 415     |
| Extended motor range     | 20M25 | 63M80  |  |  | 20M25 | 32M40 | 63M80  | 100M125 | 100M125 |
|                          | 20M32 | 63M100 |  |  | 20M32 | 32M50 | 63M100 | 100M160 | 100M160 |
|                          | 20M36 |        |  |  | 32M40 | 32M63 |        | 100M200 |         |
|                          | 32M36 |        |  |  | 32M50 |       |        |         |         |
|                          | 32M40 |        |  |  | 32M63 |       |        |         |         |
|                          | 32M50 |        |  |  |       |       |        |         |         |
|                          | 32M63 |        |  |  |       |       |        |         |         |

#### Dimensions (mm)

|                               |             |             |             |         |        |        |        |        |        |        |
|-------------------------------|-------------|-------------|-------------|---------|--------|--------|--------|--------|--------|--------|
| Overall length                | 47          | 58.5        | 68          | 29      | 47     | 55     | 85     | 87     | 110    | 95     |
| Fixing centres                | N/A         | N/A         | N/A         | N/A     | 35     | 44     | 73     | 73     | 94     | 73     |
| Maximum diameter              | 12          | 17.5        | 21          | 12.7    | 13     | 17.5   | 21     | 21     | 31     | 26     |
| Tag configuration             | Solid blade | Solid blade | Solid blade | Ferrule | Offset | Offset | Offset | Offset | Offset | Offset |
| Number of holes fixings       | 0           | 0           | 0           | 0       | 2      | 2      | 2      | 2      | 2      | 2      |
| Camaster/Safeloc fuse holder  |             | 32NNS       | 63ENS       |         |        | CM32FC | CM32F  | CM63F  |        | CM100F |
| Red Spot/Safeclip fuse holder | SC20        | SC32        | SC63        |         |        | RS20H  | RS32   | RS63   | RS100  |        |

#### Approvals

|          |   |   |   |   |   |   |   |   |   |   |
|----------|---|---|---|---|---|---|---|---|---|---|
| BS88     | • | • | • | • | • | • | • | • | • | • |
| IEC60269 | • | • | • | • | • | • | • | • | • | • |
| ASTA     | • | • | • | • | • | • | • | • | • | • |

| DEO     | AC/BC   | AD/BD*  | CD     | DD     | ED                  | EFS     | EF      | FF      | FG  | GG   | GF      | GH  |
|---------|---------|---------|--------|--------|---------------------|---------|---------|---------|-----|------|---------|-----|
| TFP     | TB      | TBC     | TC     | TF     | TKF/TMF             | TKM     | TM      | TTM     | TT  | TLT  | TLM     | TLU |
| SD6     | SE3/SE4 | SF3/SF4 | SF5    | SF6    | SF7                 | SG7     | SH8     | SH9     | SY9 | SY10 | SH10    | -   |
| BTFP42V |         | BTBC42V | BTC42V | BTF42V | BTKF42V/<br>BTMF69V | BTKM42V | BTKM42V | BTTM42V |     |      | BTLM42V |     |



|     |         |         | B1  | B2  | B3/B4 |     | C1  | C2  |     |      | C3  | D1   |
|-----|---------|---------|-----|-----|-------|-----|-----|-----|-----|------|-----|------|
| gG  | gG      | gG      | gG  | gG  | gG    | gG  | gG  | gG  | gG  | gG   | gG  | gG   |
| 415 | 500/550 | 500/550 | 500 | 415 | 415   | 415 | 415 | 690 | 550 | 550  | 550 | 550  |
| 125 | 2       | 2       | 80  | 125 | 250   | 125 | 355 | 450 | 450 | 710  | 710 | 710  |
| 160 | 4       | 4       | 100 | 160 | 315   | 160 | 400 | 500 | 500 | 800  | 800 | 800  |
| 200 | 6       | 6       |     | 200 | 355   | 200 |     | 560 | 560 | 1000 |     | 1000 |
|     | 10      | 10      |     |     | 400   | 250 |     | 630 | 630 | 1250 |     | 1250 |
|     | 16      | 16      |     |     |       | 315 |     |     |     |      |     |      |
|     | 20*     | 20      |     |     |       |     |     |     |     |      |     |      |
|     | 25*     | 25*     |     |     |       |     |     |     |     |      |     |      |
|     | 32*     | 32*     |     |     |       |     |     |     |     |      |     |      |
|     | 40*     | 40*     |     |     |       |     |     |     |     |      |     |      |
|     | 50*     | 50*     |     |     |       |     |     |     |     |      |     |      |
|     | 63*     | 63*     |     |     |       |     |     |     |     |      |     |      |

| gM      | gM     |  | gM      | gM      | gM      |  | gM      |
|---------|--------|--|---------|---------|---------|--|---------|
| 415     | 500    |  | 415     | 415     | 415     |  | 550     |
| 200M315 | 63M80  |  | 100M125 | 200M250 | 315M400 |  | 400M500 |
|         | 63M100 |  | 100M160 | 200M315 | 400M500 |  |         |
|         |        |  | 100M200 |         |         |  |         |

|        |        |        |        |        |        |         |         |         |         |         |         |        |
|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|--------|
| 110    | 113.5  | 128.5  | 126    | 136    | 136    | 158     | 210     | 210     | 262     | 262     | 210     | 198    |
| 94     | 97.5   | 111    | 111    | 111    | 111    | 133/184 | 133/184 | 133/184 | 167/231 | 165/231 | 134/185 | 149    |
| 31     | 21     | 21     | 31     | 47     | 59     | 31      | 59      | 74      | 74      | 83      | 83      | 100    |
| Offset | Centre | Centre | Centre | Centre | Centre | Centre  | Centre  | Centre  | Centre  | Centre  | Centre  | Centre |
| 2      | 2      | 2      | 2      | 2      | 2      | 4       | 4       | 4       | 4       | 4       | 4       | 4      |

RS400 RS400

|   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| • | • | • | • | • | • | • | • | • | • | • | • | • |
| • | • | • | • | • | • | • | • | • | • | • | • | • |
| • | • | • | • | • | • | • | • | • | • | • | • | • |

\* Rated voltage 500 V a.c.

# Application information

The Eaton's Bussmann series standard range of high breaking capacity fuse links, for low voltage industrial and general purpose applications, meet the requirements of BS88 and IEC 60269. By using advanced fuse technology the current ratings up to 400 A have compact dimensions but are still within the standardised dimensional and performance requirements. These designs have been optimised for 415/240 V systems. The standard range of fuse links are available from 2-1250 A in the following tag forms: offset bladed - offset bolted and centre bolted. IEC 60269, DIN 43620 fuse links are available from 2 to 1250 A in standard sizes 000 to 4a.

Supplementary ranges cover applications up to 690 V a.c. and 500 V d.c. including those with non-standard tag fixings.

Eaton's Bussmann series fuse links are manufactured under Quality Systems independently assessed to ISO 9001 and appropriate ratings carry the ASTA 20 endorsement.

## Application data

One of the long standing advantages of fuse protection is that fuse selection is relatively simple and effective.

The following notes cover the majority of applications. For further information contact Eaton's Bussmann business technical department 00 44 (0) 1509 882 699 or [buletechnical@eaton.com](mailto:buletechnical@eaton.com).

Reference should also be made to the appropriate Wiring Installations rules, in the UK the 17<sup>th</sup> Edition of the IEE Wiring Regulations for Electrical installations which aligns with IEC 60634.

## Circuit loading

The current rating of the fuse link should not be less than the full load current of the circuit. The circuit should be so designed that small overloads of long duration will not be of frequent occurrence.

## Cable ratings

There is an increasing move away from 70°C P.V.C. insulation to materials which are more environmentally friendly, for example 90°C XLPE. The ratings of fuse gear, switches, accessories etc, are generally based upon the equipment being connected to conductors intended to be operated at a temperature not exceeding 70°C in normal service.

In view of the above it is recommended that the practice of designs based upon conductor temperatures of 70°C be regarded as the norm. In accordance with the Wiring Regulations the equipment manufacturer should be consulted to ascertain the reduction of nominal current rating of the equipment if conductor temperatures exceeding 70°C are used. In addition overriding factor is often voltage drop consideration.

## Cable protection

Eaton's Bussmann series fuse links with gG characteristics protect associated cables against both overload and short circuit current, provided that the current rating of the fuse link  $I_n$  is equal or less than the current carrying capacity of the cable  $I_z$ .

In motor circuits, the motor starter will provide the overload protection and the fuse links will provide the short circuit protection. The maximum size of fuse link that can be used depends upon the type of cable used and is determined in accordance with the Wiring Regulations using the appropriate K factor. The following table gives maximum sizes of fuse links that are recommended for two popular cables with copper conductors 70°C P.V.C. (K=115) and 90°C thermosetting (K = 143).

## Ambient temperature

A de-rating in terms of current of 0.5% per 1°C above an ambient of 35°C is recommended.

## Breaking capacity

For BS88 fuse links the standardised values of breaking capacity are 80 kA for voltages of 415 V a.c. and above, and 40 kA for d.c. applications. For IEC 60269 (DIN 43620) fuse links the breaking capacity is typically 120 kA for voltages of 500-690 V a.c.

## Discrimination

All fuse links will give discrimination ratio of 2:1 and for more practical situations a ratio of 1.6:1 (two steps in the R10 series). Example an upstream fuse link rated at 160 A will discriminate with a downstream fuse rated at 100 A.

## Current and energy limitation

Eaton's Bussmann series range of fuse links have pre-arcing  $I^2t$  values towards the bottom limits of the standards. This ensures excellent current and energy limitation. They also have lower power losses at rated current. This assists in the appropriate interchangeability with other makes of fuse links.

## Transformers

When fuse links are used on the primary side of transformers the normal current rating of the fuse links should be at least twice the nominal transformer primary current. The inrush current can be estimated at 12 x Full Load Current (FLC) for purposes of fuse link selection.

## Fluorescent lighting

The normal current rating of the fuse link should be at least twice the normal full load current of the maximum number of lights to be switched simultaneously.

## Capacitor circuits

In capacitor circuits, for example power factor correction, the fuse link should be chosen with a current rating typically twice the rated capacitor current. This takes in account of the high transient inrush current, circuit harmonics and capacitor tolerances.

| Cable size mm <sup>2</sup> | Max fuse rating |           | Cable size mm <sup>2</sup> | Max fuse rating |           |
|----------------------------|-----------------|-----------|----------------------------|-----------------|-----------|
|                            | K = 115 A       | K = 143 A |                            | K = 115 A       | K = 143 A |
| 1                          | 16              | 16        | 25                         | 200*            | 250*      |
| 1.5                        | 20              | 25        | 35                         | 315*            | 355*      |
| 2.5                        | 32*             | 32*       | 50                         | 400*            | 500       |
| 4                          | 50*             | 50*       | 70                         | 560             | 630       |
| 6                          | 63*             | 63*       | 95                         | 710             | 800       |
| 10                         | 100*            | 125*      | 120                        | 800             | 1000      |
| 16                         | 125*            | 160*      |                            |                 |           |

## Zs ohms impedance values

The rules for protection against indirect contacts are given in the Wiring Regulations.

Recommendation is based on ambient temperature at 25°C. At higher temperatures some fuse links may have to be de-rated. Ensure the voltage rating of the fuse is suitable for the application. If in doubt contact Eaton's Bussmann business technical department: [buletechnical@eaton.com](mailto:buletechnical@eaton.com) or 00 44 (0) 1509 882 699.

| BS88 fuse links      |           | NH fuse links (all sizes)                                                                              |           | Cylindrical fuse links (8 x 31, 10x38, 14x51, 22x58 mm)                                                                                                                     |                   |                   |
|----------------------|-----------|--------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| Rated current (Amps) | Zs (Ohms) | Rated current (Amps)                                                                                   | Zs (Ohms) | Rated current (Amps)                                                                                                                                                        | gG type Zs (Ohms) | aM type Zs (Ohms) |
| 2                    | 60        | 40                                                                                                     | 1.6       | 2                                                                                                                                                                           | 26                | 15                |
| 4                    | 26.6      | 63                                                                                                     | 0.96      | 4                                                                                                                                                                           | 12.9              | 7.5               |
| 6                    | 14        | 80                                                                                                     | 0.8       | 6                                                                                                                                                                           | 8.57              | 5                 |
| 10                   | 7.7       | 100                                                                                                    | 0.57      | 8                                                                                                                                                                           | 6.81              | 3.75              |
| 16                   | 4.3       | 125                                                                                                    | 0.46      | 10                                                                                                                                                                          | 5.16              | 3                 |
| 20                   | 3         | 160                                                                                                    | 0.29      | 12                                                                                                                                                                          | 4.34              | 2.5               |
| 25                   | 2.4       | 200                                                                                                    | 0.24      | 16                                                                                                                                                                          | 3.69              | 1.87              |
| 32                   | 1.9       | 224                                                                                                    | 0.22      | 20                                                                                                                                                                          | 2.82              | 1.5               |
| 35                   | 1.7       | 250                                                                                                    | 0.21      | 25                                                                                                                                                                          | 2.18              | 1.2               |
| 40                   | 1.4       | 315                                                                                                    | 0.15      | 32                                                                                                                                                                          | 1.6               | 0.93              |
| 50                   | 1.1       | 355                                                                                                    | 0.13      | 40                                                                                                                                                                          | 1.26              | 0.75              |
| 63                   | 0.86      | 400                                                                                                    | 0.91      | 50                                                                                                                                                                          | 0.96              | 0.6               |
| 80                   | 0.6       | 500                                                                                                    | 0.08      | 63                                                                                                                                                                          | 0.75              | 0.47              |
| 100                  | 0.44      | 630                                                                                                    | 0.07      | 80                                                                                                                                                                          | 0.56              | 0.37              |
| 125                  | 0.35      | For a TN system, a disconnecting time not exceeding 5 seconds is permitted for a distribution circuit. |           | 100                                                                                                                                                                         | 0.41              | 0.3               |
| 160                  | 0.27      |                                                                                                        |           | 125                                                                                                                                                                         | 0.34              | 0.24              |
| 200                  | 0.2       | For DIN fuse links (NH) to DIN 43620 with gG/gL characteristics at 230-240 V a.c.                      |           | For a TN system, a disconnecting time not exceeding 5 seconds is permitted for a distribution circuit.<br><br>Values refer to an installation with 230-240 V a.c. to earth. |                   |                   |
| 250                  | 0.16      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 315                  | 0.13      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 355                  | 0.14      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 400                  | 0.09      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 450                  | 0.08      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 500                  | 0.07      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 630                  | 0.05      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 800                  | 0.04      |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 1000                 | 0.038     |                                                                                                        |           |                                                                                                                                                                             |                   |                   |
| 1250                 | 0.026     |                                                                                                        |           |                                                                                                                                                                             |                   |                   |

For a TN system, a disconnecting time not exceeding 5 seconds is permitted for a distribution circuit. The maximum values of earth fault loop impedance (Zs) corresponding to a disconnecting time of 5 seconds for a nominal voltage to earth (Uo) of 230-240 V a.c. for Eaton's Bussmann series gG fuse links to BS88: Parts 2 and 6.

## Motor circuits

In motor circuits the fuse link has to withstand the starting current of the motor and often requires a higher rating than the full load current of the motor.

Coordination recommendations are made by the manufacturers of motor starters in accordance to IEC 60947-4-1. To give the desirable type 2 coordination with fuse links, tests are performed with the latest gG, gM and aM fuse links, to BS88 or IEC 60269 which have pre-arcing  $I^2t$  values towards the bottom specified limits. This means that Eaton's Busmann series fuse links are suitable to give type 2 coordination.

Extended dual ratings of motor circuit protection fuse links with gM characteristics are available in most popular sizes of fuse links to extend the use of associated equipment with appropriate economies. In the majority of applications, gG fuse links are used. It is not essential for gM and aM fuse links to be used in motor circuit protection, they simply extend the utilisation of standard equipment.

The table below shows the recommended fuse links at 415 V. In most applications the run-up time is less than five seconds and duty is infrequent - no more than twice per hour. The next larger rating should be used for more arduous conditions.

Motor full load current look up table

| Motor rating |      | Rated voltage (V a.c.) |      |      |
|--------------|------|------------------------|------|------|
|              |      | 220                    | 415  | 660  |
| kW           | HP   | Amps                   | Amps | Amps |
| 0.37         | 0.5  | 2                      | 1.05 | 0.7  |
| 0.55         | 0.75 | 2.7                    | 1.5  | 0.9  |
| 0.75         | 1    | 3.9                    | 2    | 1.3  |
| 1.1          | 1.5  | 4.7                    | 2.5  | 1.6  |
| 1.5          | 2    | 6.5                    | 3.5  | 2.2  |
| 2.2          | 3    | 9.3                    | 5    | 3.2  |
| 3            | 4    | 12                     | 6.5  | 4.1  |
| 4            | 5.5  | 15.4                   | 8.4  | 5.3  |
| 5.5          | 7.5  | 20.7                   | 11   | 6.9  |
| 7.5          | 10   | 28                     | 14.4 | 9.3  |
| 11           | 15   | 39.1                   | 21   | 13.2 |
| 15           | 20   | 52.8                   | 28   | 17.6 |
| 18.5         | 25   | 66                     | 35   | 22   |
| 22           | 30   | 77                     | 41   | 26   |
| 30           | 40   | 103                    | 55   | 35   |
| 37           | 50   | 128                    | 69   | 43.3 |
| 45           | 60   | 151                    | 80   | 50   |
| 55           | 75   | 185                    | 98   | 62   |
| 75           | 100  | 257                    | 136  | 85   |
| 90           | 120  | 308                    | 164  | 102  |
| 110          | 150  | 370                    | 196  | 123  |
| 132          | 175  | 426                    | 226  | 142  |
| 150          | 200  | 500                    | 268  | 168  |
| 160          | 215  | -                      | 275  | 173  |
| 200          | 270  | -                      | 358  | 225  |
| 240          | 320  | -                      | 428  | 269  |
| 280          | 375  | -                      | 488  | 307  |
| 300          | 400  | -                      | 525  | 330  |
| 320          | 425  | -                      | 538  | 338  |

Motor fuse link selection table

| Motor rating |      | Direct on-line |       |            |        | Assisted Start (Star/Delta) BS88/NH |
|--------------|------|----------------|-------|------------|--------|-------------------------------------|
|              |      | BS88 gG        | NH gG | BS88 Motor | NH aM* |                                     |
| kW           | Amps | Amps           | Amps  | Amps       | Amps   |                                     |
| 0.25         | 0.8  | 4              | 4     | -          |        | 2                                   |
| 0.37         | 1.1  | 4              | 4     | -          |        | 2                                   |
| 0.55         | 1.5  | 6              | 6     | -          |        | 4                                   |
| 0.75         | 2    | 6              | 6     | -          |        | 4                                   |
| 1.1          | 3    | 10             | 10    | -          | 6      | 6                                   |
| 1.5          | 3.6  | 16             | 16    | -          | 6      | 10                                  |
| 2.2          | 5    | 16             | 16    | -          | 6      | 10                                  |
| 3            | 6.5  | 20             | 20    | -          | 10     | 16                                  |
| 4            | 8.4  | 20             | 20    | -          | 16     | 16                                  |
| 5.5          | 11   | 25             | 25    | 20M25      | 20     | 20                                  |
| 7.5          | 15   | 40             | 40    | 32M40      | 32     | 25                                  |
| 11           | 20   | 50             | 50    | 32M50      | 32     | 32                                  |
| 15           | 27   | 63             | 63    | 32M63      | 40     | 40                                  |
| 18.5         | 33   | 80             | 80    | 63M80      | 63     | 50                                  |
| 22           | 38   | 80             | 80    | 63M80      | 63     | 50                                  |
| 30           | 54   | 100            | 100   | 63M100     | 80     | 80                                  |
| 37           | 66   | 125            | 125   | 100M125    | 100    | 80                                  |
| 45           | 79   | 160            | 160   | 100M160    | 100    | 100                                 |
| 55           | 98   | 160            | 160   | 100M160    | 200    | 100                                 |
| 75           | 135  | 250            | 250   | 200M250    | 200    | 160                                 |
| 90           | 155  | 250            | 250   | 200M250    | 250    | 160                                 |
| 110          | 185  | 315            | 315   | 200M315    | 315    | 200                                 |
| 132          | 220  | 355            | 355   | 315M400    | 315    | 250                                 |
| 150          | 250  | 355            | 355   | 315M400    | 400    | 315                                 |
| 185          | 310  | 450            | 450   | 400M500    | 400    | 355                                 |
| 200          | 335  | 500            | 500   | 400M500    | 500    | 400                                 |
| 225          | 375  | 560            | 560   | -          | -      | 400                                 |
| 250          | 415  | 560            | 560   | -          | -      | 450                                 |
| 280          | 460  | 630            | 630   | -          | -      | 500                                 |
| 335          | 562  | 710            | 710   | -          | -      | 630                                 |
| 355          | 596  | 800            | 800   | -          | -      | 710                                 |

\* No overload protection with these fuse links, and overload

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## Customer Satisfaction team

Eaton's Customer Satisfaction team is available to answer questions regarding Bussmann series products.

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Monday - Thursday 8.30 a.m. - 4.30 p.m. GMT

Friday 8.30 a.m. - 4.00 p.m. GMT

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