



Sample image

## Datasheet

**Article number:** 70012781

**Designation:** KG100.T104/33.KL71V

**Description:** Switch Global Disconnecter

|                                                                                                                                                                                                                                        |                          |                          |                                                                  |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------------------------------------------------|-----------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                                                                                              |                          |                          |                                                                  |                 |
| Rated insulation voltage Ui                                                                                                                                                                                                            |                          |                          |                                                                  |                 |
| Voltage (V) AC / DC                                                                                                                                                                                                                    |                          |                          |                                                                  |                 |
| 690 AC                                                                                                                                                                                                                                 |                          |                          |                                                                  |                 |
| Rated uninterrupted current Iu/Ith                                                                                                                                                                                                     |                          |                          |                                                                  |                 |
| Current (A)                                                                                                                                                                                                                            | Ambient temperature (°C) | Peak temperature (°C)    | additional requirements                                          |                 |
| 100                                                                                                                                                                                                                                    | 50                       | 55                       | Ambient temperature +50°C during 24 hours with peaks up to +55°C |                 |
| Rated operational current Ie                                                                                                                                                                                                           |                          |                          |                                                                  |                 |
| Utilization category                                                                                                                                                                                                                   |                          | Voltage (V)              |                                                                  | Current (A)     |
| AC-32A                                                                                                                                                                                                                                 |                          | 20 - 400                 |                                                                  | 100             |
| Rated operational power                                                                                                                                                                                                                |                          |                          |                                                                  |                 |
| Utilization category                                                                                                                                                                                                                   | Voltage (V)              | No. of phases            | No. of poles                                                     | Power (kW)      |
| AC-3                                                                                                                                                                                                                                   | 220 - 240                | 3                        | 3                                                                | 18,50           |
| AC-3                                                                                                                                                                                                                                   | 380 - 440                | 3                        | 3                                                                | 30              |
| AC-3                                                                                                                                                                                                                                   | 660 - 690                | 3                        | 3                                                                | 22              |
| AC-23A                                                                                                                                                                                                                                 | 220 - 240                | 3                        | 3                                                                | 22              |
| AC-23A                                                                                                                                                                                                                                 | 380 - 440                | 3                        | 3                                                                | 37              |
| AC-23A                                                                                                                                                                                                                                 | 660 - 690                | 3                        | 3                                                                | 30              |
| Max. Fuse rating IEC                                                                                                                                                                                                                   |                          |                          |                                                                  |                 |
| Fuse characteristic                                                                                                                                                                                                                    |                          | No. of Fuses             |                                                                  | Current (A)     |
| gG                                                                                                                                                                                                                                     |                          | 1                        |                                                                  | 100             |
| UL60947-4-1 , UL508                                                                                                                                                                                                                    |                          |                          |                                                                  |                 |
| Nominal Voltage                                                                                                                                                                                                                        |                          |                          |                                                                  |                 |
| Voltage (V) AC / DC                                                                                                                                                                                                                    |                          |                          |                                                                  |                 |
| 600 AC                                                                                                                                                                                                                                 |                          |                          |                                                                  |                 |
| Rated insulation voltage Ui                                                                                                                                                                                                            |                          |                          |                                                                  |                 |
| Voltage (V) AC / DC                                                                                                                                                                                                                    |                          |                          |                                                                  |                 |
| 600 AC                                                                                                                                                                                                                                 |                          |                          |                                                                  |                 |
| Rated thermal current                                                                                                                                                                                                                  |                          |                          |                                                                  |                 |
| Current (A)                                                                                                                                                                                                                            |                          | Ambient temperature (°C) |                                                                  | Additional Text |
| 100                                                                                                                                                                                                                                    |                          | 0 - 40                   |                                                                  | --              |
| Horsepower rating                                                                                                                                                                                                                      |                          |                          |                                                                  |                 |
| Across-the-Line Motor Starting                                                                                                                                                                                                         | Voltage (V)              | No. of phases            | No. of poles                                                     | Power (HP)      |
| DOL                                                                                                                                                                                                                                    | 110 - 120                | 1                        | 2                                                                | 5               |
| DOL                                                                                                                                                                                                                                    | 220 - 240                | 1                        | 2                                                                | 15              |
| DOL                                                                                                                                                                                                                                    | 277 - 277                | 1                        | 2                                                                | 15              |
| DOL                                                                                                                                                                                                                                    | 415 - 415                | 1                        | 2                                                                | 25              |
| DOL                                                                                                                                                                                                                                    | 440 - 480                | 1                        | 2                                                                | 30              |
| DOL                                                                                                                                                                                                                                    | 550 - 600                | 1                        | 2                                                                | 30              |
| DOL                                                                                                                                                                                                                                    | 110 - 120                | 3                        | 3                                                                | 10              |
| DOL                                                                                                                                                                                                                                    | 220 - 240                | 3                        | 3                                                                | 25              |
| DOL                                                                                                                                                                                                                                    | 415 - 415                | 3                        | 3                                                                | 40              |
| DOL                                                                                                                                                                                                                                    | 440 - 480                | 3                        | 3                                                                | 50              |
| DOL                                                                                                                                                                                                                                    | 550 - 600                | 3                        | 3                                                                | 50              |
| SCCR / Max. fuse rating                                                                                                                                                                                                                |                          |                          |                                                                  |                 |
| Conditions of acceptability                                                                                                                                                                                                            |                          |                          |                                                                  |                 |
| These devices are suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses or Circuit Breaker Type SFHA36AT0250, manufactured by General Electric. |                          |                          |                                                                  |                 |
| Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes 600V max., when protected by Class J fuses, 100A max.                                                                                  |                          |                          |                                                                  |                 |
| Temp. rating of wire                                                                                                                                                                                                                   |                          |                          |                                                                  |                 |
| Temperature rating (°C)                                                                                                                                                                                                                |                          | Current (A) Text         |                                                                  |                 |
| 75                                                                                                                                                                                                                                     |                          | -- --                    |                                                                  |                 |
| Connecting instructions                                                                                                                                                                                                                |                          |                          |                                                                  |                 |
| Markings                                                                                                                                                                                                                               |                          |                          |                                                                  |                 |
| Break all lines.                                                                                                                                                                                                                       |                          |                          |                                                                  |                 |
| General Use                                                                                                                                                                                                                            |                          |                          |                                                                  |                 |
| AC / DC                                                                                                                                                                                                                                | Voltage (V)              | Current (A)              | No. of phases                                                    | No. of poles    |
| AC                                                                                                                                                                                                                                     | 277                      | 100                      | 1                                                                | 1               |
| No. of contacts in series                                                                                                                                                                                                              |                          |                          |                                                                  |                 |

| General Use |             |             |               |              |                           |
|-------------|-------------|-------------|---------------|--------------|---------------------------|
| AC / DC     | Voltage (V) | Current (A) | No. of phases | No. of poles | No. of contacts in series |
| AC          | 600         | 100         | 1             | 2            | 1                         |
| AC          | 600         | 100         | 3             | 3            | 1                         |

## General Information

### Text

- The operating handle and position indicating means to be used with these manual motor controllers should be provided from the manufacturer, or the operating handle and position indicating means to be used should have been previously evaluated in combination with the manual motor controllers.

- When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.

## CSA

### Nominal Voltage

Voltage (V) AC / DC  
600 AC

### Rated insulation voltage Ui

Voltage (V) AC / DC  
600 AC

### Rated thermal current

Current (A) Ambient temperature (°C) Additional Text  
100 0 - 40 -

### Horsepower rating

| Across-the-Line Motor Starting | Voltage (V) | No. of phases | No. of poles | Power (HP) | Ambient temperature [°C] |
|--------------------------------|-------------|---------------|--------------|------------|--------------------------|
| DOL                            | 110 - 120   | 1             | 2            | 5          | 40                       |
| DOL                            | 220 - 240   | 1             | 2            | 15         | 40                       |
| DOL                            | 277 - 277   | 1             | 2            | 15         | 40                       |
| DOL                            | 415 - 415   | 1             | 2            | 25         | 40                       |
| DOL                            | 440 - 480   | 1             | 2            | 30         | 40                       |
| DOL                            | 550 - 600   | 1             | 2            | 30         | 40                       |
| DOL                            | 110 - 120   | 3             | 3            | 10         | 40                       |
| DOL                            | 220 - 240   | 3             | 3            | 25         | 40                       |
| DOL                            | 415 - 415   | 3             | 3            | 40         | 40                       |
| DOL                            | 440 - 480   | 3             | 3            | 50         | 40                       |
| DOL                            | 550 - 600   | 3             | 3            | 50         | 40                       |

### Temp. rating of wire

Temperature rating (°C) Current (A) Text  
75 -- --

## General Use

| AC / DC | Voltage (V) | Current (A) | No. of phases | No. of poles | No. of contacts in series |
|---------|-------------|-------------|---------------|--------------|---------------------------|
| AC      | 277         | 100         | 1             | 1            | 1                         |
| AC      | 600         | 100         | 1             | 2            | 1                         |
| AC      | 600         | 100         | 3             | 3            | 1                         |

## GENERAL TECHNICAL INFORMATION

### Size of conductor

| composition of conductor                          | Min. / Max. value | No. of conductor per terminal | Cross section (mm²) or (AWG/kcmil) | Material of the wire |
|---------------------------------------------------|-------------------|-------------------------------|------------------------------------|----------------------|
| solid wire                                        | Min.              | 1                             | 2.5mm²                             | Copper               |
| flexible wire                                     | Min.              | 1                             | 4mm²                               | Copper               |
| flexible wire                                     | Max.              | 1                             | 35mm²                              | Copper               |
| flexible wire                                     | Max.              | 1                             | AWG 2                              | Copper               |
| Single-core or stranded wire                      | Max.              | 1                             | AWG 1/0                            | Copper               |
| Single-core or stranded wire                      | Max.              | 1                             | 50mm²                              | Copper               |
| flexible wire with sleeve                         | Max.              | 1                             | 35mm²                              | Copper               |
| flexible wire with ferrule according to DIN 46228 | Min.              | 1                             | 2.5mm²                             | Copper               |

### Stripping length

Length (mm) --



### Recommended screw driver

| Type of screw driver                   | Value   |
|----------------------------------------|---------|
| Cross Screwdriver                      | PH2     |
| Slot screwdriver according to DIN 5264 | 1,2x6,5 |

### Tightening torque of screws

tightening torque (Nm) tightening torque (lb-in)  
3 27

## Approbations

| Specification    | Marking                                                                               |
|------------------|---------------------------------------------------------------------------------------|
| EAC              |  |
| CE marking       |  |
| UK Directives    |  |
| CSA C.22.2 No.14 |  |
| GB/T14048.3      |  |

## General Information

### Text

- Do not lubricate or treat contacts.
- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.
- Use copper wire only. Do not coat the wire end with tin.
- Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.

## Waste Electrical & Electronic Equipment (WEEE)

| Picture name                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at <a href="http://www.krausnaimer.com">www.krausnaimer.com</a> |

## Proposition 65

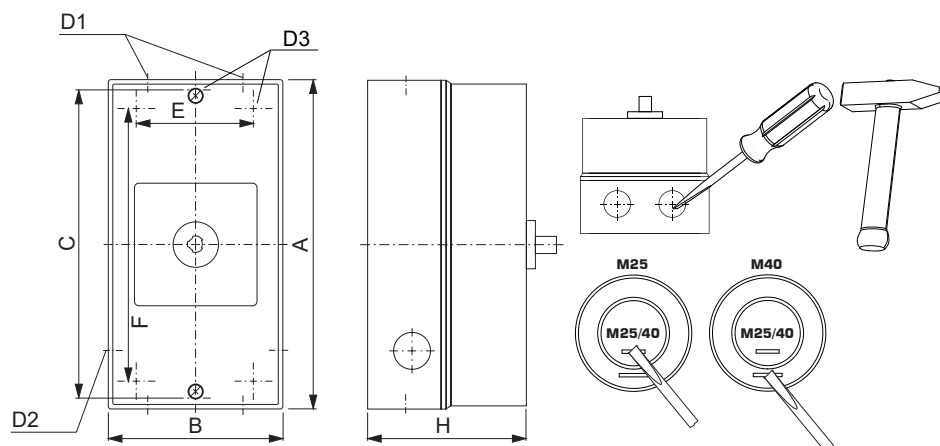
| Picture name                                                                     | Description                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

## Mounting-KL71V

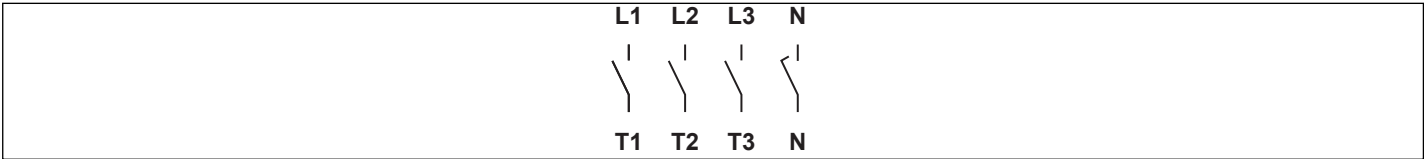


|                      |                   |
|----------------------|-------------------|
| IP - Code front side | IP66, IP67, IP69k |
| Stages               | 2,00 - 5,00       |
| A                    | H 250,00 mm       |
| B                    | H 145,00 mm       |
| D1                   | Ø 4,00 x M40/M25  |
| D2                   | Ø 2,00 x M25      |
| D3                   | Ø 6,50 mm         |
| E                    | H 124,00 mm       |
| F                    | H 229,00 mm       |
| H                    | H 107,00 mm       |



Wiring diagram

KG100.T304.KL71V



## Switch program

KG100.T304.KL71V

|  Kraus & Naimer         |     | <div> <div>KG100</div> <div>T304</div> <div>VE</div> <div>Page 1 of 1</div> </div> |         |         |        |    |    |    |    |
|----------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------|---------|---------|--------|----|----|----|----|
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
| <b>Face Plate</b>                                                                                        |     |                                                                                    |         |         |        |    |    |    |    |
|                         |     | L1<br>1                                                                            | L2<br>3 | L3<br>5 | N<br>7 | 9  | 11 | 13 | 15 |
|                                                                                                          |     |   |         |         |        |    |    |    |    |
| Switching Angle <input type="text" value="90"/><br>Total switching Angle <input type="text" value="90"/> |     | 2<br>T1                                                                            | 4<br>T2 | 6<br>T3 | 8<br>N | 10 | 12 | 14 | 16 |
| 0                                                                                                        | 270 |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
| 1                                                                                                        | 0   |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          | 90  |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          | 180 |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |
|                                                                                                          |     |                                                                                    |         |         |        |    |    |    |    |

Version: 94

## Face plate

S1.F656/C10.V9

