



Sample image

## Datasheet

**Article number:** 70010528

**Designation:** KG41B.T204/04.E

**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                                          |                 |                           |                          |
| 40                                                                                                                                                           | 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                                                         |                 | 40                        |                          |
| Rated operational power                                                                                                                                      |                          |                          |                                                                  |                 |                           |                          |
| Utilization category                                                                                                                                         | Voltage (V)              | No. of phases            | No. of poles                                                     | Power (kW)      |                           |                          |
| AC-3                                                                                                                                                         | 220 - 240                | 3                        | 3                                                                | 7,50            |                           |                          |
| AC-3                                                                                                                                                         | 380 - 440                | 3                        | 3                                                                | 11              |                           |                          |
| AC-3                                                                                                                                                         | 660 - 690                | 3                        | 3                                                                | 11              |                           |                          |
| AC-23A                                                                                                                                                       | 220 - 240                | 3                        | 3                                                                | 7,50            |                           |                          |
| AC-23A                                                                                                                                                       | 380 - 440                | 3                        | 3                                                                | 15              |                           |                          |
| AC-23A                                                                                                                                                       | 660 - 690                | 3                        | 3                                                                | 15              |                           |                          |
| Max Fuse Rating IEC                                                                                                                                          |                          |                          |                                                                  |                 |                           |                          |
| Fuse characteristic                                                                                                                                          |                          |                          | No. of Fuses                                                     |                 | Current (A)               |                          |
| gG                                                                                                                                                           |                          |                          | 1                                                                |                 | 50                        |                          |
| 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 |                           |                          |
| 42                                                                                                                                                           |                          | 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               | 2                         | 40                       |
| DOL                                                                                                                                                          |                          | 220 - 240                | 1                                                                | 2               | 5                         | 40                       |
| DOL                                                                                                                                                          |                          | 277 - 277                | 1                                                                | 2               | 7,50                      | 40                       |
| DOL                                                                                                                                                          |                          | 415 - 415                | 1                                                                | 2               | 7,50                      | 40                       |
| DOL                                                                                                                                                          |                          | 440 - 480                | 1                                                                | 2               | 10                        | 40                       |
| DOL                                                                                                                                                          |                          | 550 - 600                | 1                                                                | 2               | 10                        | 40                       |
| DOL                                                                                                                                                          |                          | 110 - 120                | 3                                                                | 3               | 5                         | 40                       |
| DOL                                                                                                                                                          |                          | 220 - 240                | 3                                                                | 3               | 15                        | 40                       |
| DOL                                                                                                                                                          |                          | 415 - 415                | 3                                                                | 3               | 15                        | 40                       |
| DOL                                                                                                                                                          |                          | 440 - 480                | 3                                                                | 3               | 25                        | 40                       |
| DOL                                                                                                                                                          |                          | 550 - 600                | 3                                                                | 3               | 30                        | 40                       |
| Pilot duty rating code                                                                                                                                       |                          |                          |                                                                  |                 |                           |                          |
| Duty Code                                                                                                                                                    |                          |                          |                                                                  |                 |                           |                          |
| A600                                                                                                                                                         |                          |                          |                                                                  |                 |                           |                          |
| SCCR / Max. fuse rating                                                                                                                                      |                          |                          |                                                                  |                 |                           |                          |
| Conditions of acceptability                                                                                                                                  |                          |                          |                                                                  |                 |                           |                          |
| This device is suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses. |                          |                          |                                                                  |                 |                           |                          |
| Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes 600V max., when protected by 60A Class J fuses.              |                          |                          |                                                                  |                 |                           |                          |
| Temp. rating of wire                                                                                                                                         |                          |                          |                                                                  |                 |                           |                          |
| Temperature rating (°C)                                                                                                                                      |                          |                          | Current (A) Text                                                 |                 |                           |                          |
| 60 - 75                                                                                                                                                      |                          |                          | -- --                                                            |                 |                           |                          |
| General Use                                                                                                                                                  |                          |                          |                                                                  |                 |                           |                          |
| AC / DC                                                                                                                                                      | Voltage (V)              | Current (A)              | No. of phases                                                    | No. of poles    | No. of contacts in series |                          |
| AC                                                                                                                                                           | 277                      | 42                       | 1                                                                | 1               | 1                         |                          |
| AC                                                                                                                                                           | 600                      | 42                       | 1                                                                | 2               | 1                         |                          |

| General Use                                                                                                                                                                                                                                                                                            |             |                   |                          |                               |                           |                                    |            |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|--------------------------|-------------------------------|---------------------------|------------------------------------|------------|---------------------------------------------------------------------------------------|
| AC / DC                                                                                                                                                                                                                                                                                                | Voltage (V) | Current (A)       | No. of phases            | No. of poles                  | No. of contacts in series |                                    |            |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 42                | 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           |                                    |            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             | 40                | 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                                  | 2          | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 220 - 240                     | 1                         | 2                                  | 5          | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 277 - 277                     | 1                         | 2                                  | 7,50       | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 415 - 415                     | 1                         | 2                                  | 7,50       | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 440 - 480                     | 1                         | 2                                  | 10         | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 550 - 600                     | 1                         | 2                                  | 10         | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 110 - 120                     | 3                         | 3                                  | 5          | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 220 - 240                     | 3                         | 3                                  | 15         | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 415 - 415                     | 3                         | 3                                  | 15         | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 440 - 480                     | 3                         | 3                                  | 25         | 40                                                                                    |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                          | 550 - 600                     | 3                         | 3                                  | 30         | 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         | 40                | 1                        | 1                             | 1                         |                                    |            |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 40                | 1                        | 2                             | 1                         |                                    |            |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 40                | 3                        | 3                             | 1                         |                                    |            |                                                                                       |
| GENERAL TECHNICAL INFORMATION                                                                                                                                                                                                                                                                          |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| Tightening torque of screws                                                                                                                                                                                                                                                                            |             |                   |                          |                               |                           |                                    |            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                          | tightening torque (Nm)        |                           | tightening torque (lb-in)          |            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                          | 1,80                          |                           | 16                                 |            |                                                                                       |
| Stripping length                                                                                                                                                                                                                                                                                       |             |                   |                          |                               |                           |                                    |            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                          | Length (mm) --                |                           |                                    |            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                          | 12 STRIPPINGLENGTH            |                           |                                    |            |                                                                                       |
| Size of conductor                                                                                                                                                                                                                                                                                      |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| composition of conductor                                                                                                                                                                                                                                                                               |             | Min. / Max. value |                          | No. of conductor per terminal |                           | Cross section (mm²) or (AWG/kcmil) |            | Material of the wire                                                                  |
| flexible wire                                                                                                                                                                                                                                                                                          |             | Max.              |                          | 1                             |                           | AWG 6                              |            | Copper                                                                                |
| flexible wire                                                                                                                                                                                                                                                                                          |             | Max.              |                          | 1                             |                           | 10mm²                              |            | Copper                                                                                |
| Single-core or stranded wire                                                                                                                                                                                                                                                                           |             | Max.              |                          | 1                             |                           | AWG 6                              |            | Copper                                                                                |
| Single-core or stranded wire                                                                                                                                                                                                                                                                           |             | Max.              |                          | 1                             |                           | 16mm²                              |            | Copper                                                                                |
| flexible wire with sleeve                                                                                                                                                                                                                                                                              |             | Max.              |                          | 1                             |                           | 10mm²                              |            | Copper                                                                                |
| Approbations                                                                                                                                                                                                                                                                                           |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| Specification                                                                                                                                                                                                                                                                                          |             |                   |                          |                               |                           |                                    |            | Marking                                                                               |
| EAC                                                                                                                                                                                                                                                                                                    |             |                   |                          |                               |                           |                                    |            |  |
| CE marking                                                                                                                                                                                                                                                                                             |             |                   |                          |                               |                           |                                    |            |  |
| UK Directives                                                                                                                                                                                                                                                                                          |             |                   |                          |                               |                           |                                    |            |  |
| CSA C.22.2 No.14                                                                                                                                                                                                                                                                                       |             |                   |                          |                               |                           |                                    |            |  |
| GB/T14048.3                                                                                                                                                                                                                                                                                            |             |                   |                          |                               |                           |                                    |            |  |
| Recommended screw driver                                                                                                                                                                                                                                                                               |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| Type of screw driver                                                                                                                                                                                                                                                                                   |             |                   |                          | Value                         |                           |                                    |            |                                                                                       |
| Cross Screwdriver                                                                                                                                                                                                                                                                                      |             |                   |                          | PH2                           |                           |                                    |            |                                                                                       |
| Slot screwdriver according to DIN 5264                                                                                                                                                                                                                                                                 |             |                   |                          | 1,2x6,5                       |                           |                                    |            |                                                                                       |
| General Information                                                                                                                                                                                                                                                                                    |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| Text                                                                                                                                                                                                                                                                                                   |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| - EMC Note: This device is suitable for use in environment A and B.                                                                                                                                                                                                                                    |             |                   |                          |                               |                           |                                    |            |                                                                                       |
| - Do not lubricate or treat contacts.                                                                                                                                                                                                                                                                  |             |                   |                          |                               |                           |                                    |            |                                                                                       |

## General Information

### Text

- 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 [www.krausnaimer.com](http://www.krausnaimer.com)

## Proposition 65

### Picture name Description



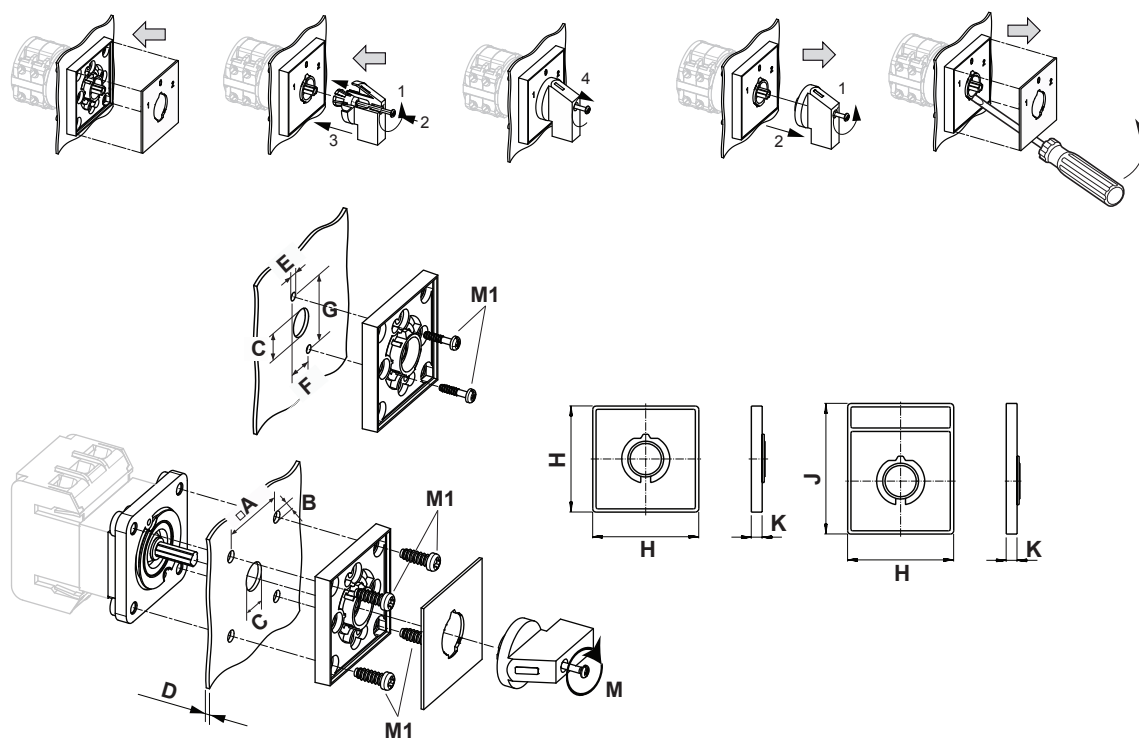
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

## Mounting-E



|                      |   |                  |
|----------------------|---|------------------|
| IP - Code front side |   | IP66, IP67       |
| Stages               |   | 1,00 - 12,00     |
| A                    | □ | 48,00 mm         |
| B                    | ∅ | 5,00 mm          |
| C                    | ∅ | 10,00 - 15,00 mm |
| D                    | H | <= 4,00 mm       |
| E                    | ∅ | 3,50 mm          |
| F                    | H | 12,20 mm         |
| G                    | H | 30,00 mm         |
| H                    | H | 64,00 mm         |
| J                    | H | 78,50 mm         |
| K                    | H | 7,40 mm          |
| M                    | ↺ | 0,70 Nm          |
| M1                   | ↺ | 0,90 Nm          |



Wiring diagram

KG41B.T304.E



## Switch program

KG41B.T304.E



Kraus & Naimer

**KG41B**
**T304**

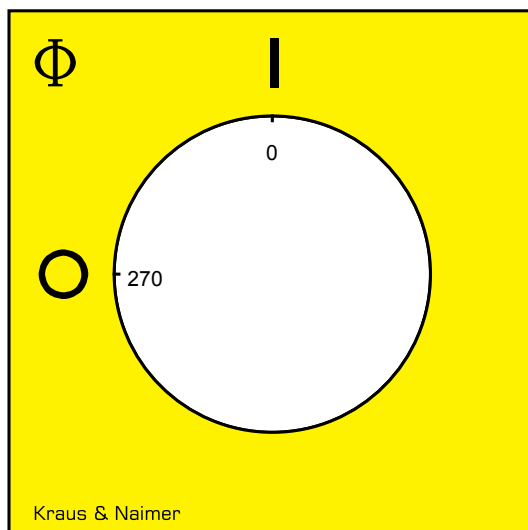
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| Face Plate                                                                                                                                                                                     |     |    |    |    |   |    |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----|---|----|----|----|----|
|                                                                                                               |     | L1 | L2 | L3 | N |    |    |    |    |
|                                                                                                                                                                                                |     | 1  | 3  | 5  | 7 | 9  | 11 | 13 | 15 |
| <div style="display: flex; justify-content: space-around;"> <div>Switching Angle <input type="text" value="90"/></div> <div>Total switching Angle <input type="text" value="90"/></div> </div> |     | 2  | 4  | 6  | 8 | 10 | 12 | 14 | 16 |
|                                                                                                                                                                                                |     | T1 | T2 | T3 | N |    |    |    |    |
| 0                                                                                                                                                                                              | 270 |    |    |    |   |    |    |    |    |
| 1                                                                                                                                                                                              | 0   | ■  | ■  | ■  | ■ |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                | 90  |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                | 180 |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |

Version: 94

## Face plate

S1.F456/E10.V45H



## PADLOCK DEVICE

**Designation:** S1.V845/E11/A12

**Face plate and handle unit:** "E" face plate/yellow, frame/black, handle/red, locking push rod/yellow

**Locking position:** "1" at 09:00/03:00 - knockouts every 45°

**Angular displacement:** "1" 1 x 90°

**Type of mounting:** "A" for type of mounting E

**Type of mounting:** "A" for type of mounting GK

**Type of version:** "1" for same switch size

**Switch type:** "2" for KA-, KG- and KH(R)-switches

