

Sample image

## Datasheet

**Article number:** 70023899

**Designation:** KG20A.T203/04.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                                          |                 |                           |                          |
| 25                                                                                                                                                                                                                                                                                                     | 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                                                         |                 | 20                        |                          |
| Rated operational power                                                                                                                                                                                                                                                                                |                          |                          |                                                                  |                 |                           |                          |
| Utilization category                                                                                                                                                                                                                                                                                   | Voltage (V)              | No. of phases            | No. of poles                                                     | Power (kW)      |                           |                          |
| AC-3                                                                                                                                                                                                                                                                                                   | 220 - 240                | 3                        | 3                                                                | 4               |                           |                          |
| AC-3                                                                                                                                                                                                                                                                                                   | 380 - 440                | 3                        | 3                                                                | 5,50            |                           |                          |
| AC-3                                                                                                                                                                                                                                                                                                   | 660 - 690                | 3                        | 3                                                                | 5,50            |                           |                          |
| AC-23A                                                                                                                                                                                                                                                                                                 | 220 - 240                | 3                        | 3                                                                | 5,50            |                           |                          |
| AC-23A                                                                                                                                                                                                                                                                                                 | 380 - 440                | 3                        | 3                                                                | 7,50            |                           |                          |
| AC-23A                                                                                                                                                                                                                                                                                                 | 660 - 690                | 3                        | 3                                                                | 7,50            |                           |                          |
| Max Fuse Rating IEC                                                                                                                                                                                                                                                                                    |                          |                          |                                                                  |                 |                           |                          |
| Fuse characteristic                                                                                                                                                                                                                                                                                    |                          |                          | No. of Fuses                                                     |                 | Current (A)               |                          |
| gG                                                                                                                                                                                                                                                                                                     |                          |                          | 1                                                                |                 | 35                        |                          |
| 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 |                           |                          |
| 25                                                                                                                                                                                                                                                                                                     |                          | 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               | 1                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 220 - 240                | 1                                                                | 2               | 3                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 277 - 277                | 1                                                                | 2               | 3                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 415 - 415                | 1                                                                | 2               | 5                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 440 - 480                | 1                                                                | 2               | 5                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 550 - 600                | 1                                                                | 2               | 5                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 110 - 120                | 3                                                                | 3               | 2                         | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 200 - 240                | 3                                                                | 3               | 7,50                      | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 415 - 415                | 3                                                                | 3               | 10                        | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 440 - 480                | 3                                                                | 3               | 15                        | 40                       |
| DOL                                                                                                                                                                                                                                                                                                    |                          | 550 - 600                | 3                                                                | 3               | 20                        | 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 at 600V max., when protected by 40A 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                      | 25                       | 1                                                                | 1               | 1                         |                          |
| AC                                                                                                                                                                                                                                                                                                     | 600                      | 25                       | 1                                                                | 2               | 1                         |                          |
| AC                                                                                                                                                                                                                                                                                                     | 600                      | 25                       | 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. |                          |                          |                                                                  |                 |                           |                          |

|                                                                                                                                      |                   |                               |                                    |                           |                           |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|------------------------------------|---------------------------|---------------------------|---------------------------------------------------------------------------------------|
| General Information                                                                                                                  |                   |                               |                                    |                           |                           |                                                                                       |
| Text                                                                                                                                 |                   |                               |                                    |                           |                           |                                                                                       |
| - 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           |                                                                                       |
|                                                                                                                                      |                   | 25                            | 0 - 40                             |                           | --                        |                                                                                       |
| Horsepower rating                                                                                                                    |                   |                               |                                    |                           |                           |                                                                                       |
| Across-the-Line Motor Starting                                                                                                       |                   |                               | Voltage (V)                        | No. of phases             | No. of poles              | Power (HP)                                                                            |
| DOL                                                                                                                                  |                   |                               | 110 - 120                          | 1                         | 2                         | 1                                                                                     |
| DOL                                                                                                                                  |                   |                               | 220 - 240                          | 1                         | 2                         | 3                                                                                     |
| DOL                                                                                                                                  |                   |                               | 277 - 277                          | 1                         | 2                         | 3                                                                                     |
| DOL                                                                                                                                  |                   |                               | 415 - 415                          | 1                         | 2                         | 5                                                                                     |
| DOL                                                                                                                                  |                   |                               | 440 - 480                          | 1                         | 2                         | 5                                                                                     |
| DOL                                                                                                                                  |                   |                               | 550 - 600                          | 1                         | 2                         | 5                                                                                     |
| DOL                                                                                                                                  |                   |                               | 110 - 120                          | 3                         | 3                         | 2                                                                                     |
| DOL                                                                                                                                  |                   |                               | 220 - 240                          | 3                         | 3                         | 7,50                                                                                  |
| DOL                                                                                                                                  |                   |                               | 415 - 415                          | 3                         | 3                         | 10                                                                                    |
| DOL                                                                                                                                  |                   |                               | 440 - 480                          | 3                         | 3                         | 15                                                                                    |
| DOL                                                                                                                                  |                   |                               | 550 - 600                          | 3                         | 3                         | 20                                                                                    |
| Pilot duty rating code                                                                                                               |                   |                               |                                    |                           |                           |                                                                                       |
| Duty Code                                                                                                                            |                   |                               |                                    |                           |                           |                                                                                       |
| A600                                                                                                                                 |                   |                               |                                    |                           |                           |                                                                                       |
| 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               | 25                            | 1                                  | 1                         | 1                         |                                                                                       |
| AC                                                                                                                                   | 600               | 25                            | 1                                  | 2                         | 1                         |                                                                                       |
| AC                                                                                                                                   | 600               | 25                            | 3                                  | 3                         | 1                         |                                                                                       |
| GENERAL TECHNICAL INFORMATION                                                                                                        |                   |                               |                                    |                           |                           |                                                                                       |
| Tightening torque of screws                                                                                                          |                   |                               |                                    |                           |                           |                                                                                       |
|                                                                                                                                      |                   |                               | tightening torque (Nm)             | tightening torque (lb-in) |                           |                                                                                       |
|                                                                                                                                      |                   |                               | 1,25                               | 11                        |                           |                                                                                       |
| Stripping length                                                                                                                     |                   |                               |                                    |                           |                           |                                                                                       |
|                                                                                                                                      |                   |                               | Length (mm) --                     |                           |                           |                                                                                       |
|                                                                                                                                      |                   |                               | 9 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 10                             |                           | Copper                    |                                                                                       |
| flexible wire                                                                                                                        | Max.              | 1                             | 4mm²                               |                           | Copper                    |                                                                                       |
| Single-core or stranded wire                                                                                                         | Max.              | 1                             | 6mm²                               |                           | Copper                    |                                                                                       |
| Single-core or stranded wire                                                                                                         | Max.              | 1                             | AWG 10                             |                           | Copper                    |                                                                                       |
| flexible wire with sleeve                                                                                                            | Max.              | 1                             | 4mm²                               |                           | 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                                                                                               |                   |                               | 0,8x4                              |                           |                           |                                                                                       |
| General Information                                                                                                                  |                   |                               |                                    |                           |                           |                                                                                       |
| Text                                                                                                                                 |                   |                               |                                    |                           |                           |                                                                                       |
| - EMC Note: This device is suitable for use in environment A and B.                                                                  |                   |                               |                                    |                           |                           |                                                                                       |
| - 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.                                                                           |                   |                               |                                    |                           |                           |                                                                                       |

## General Information

### Text

- 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



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



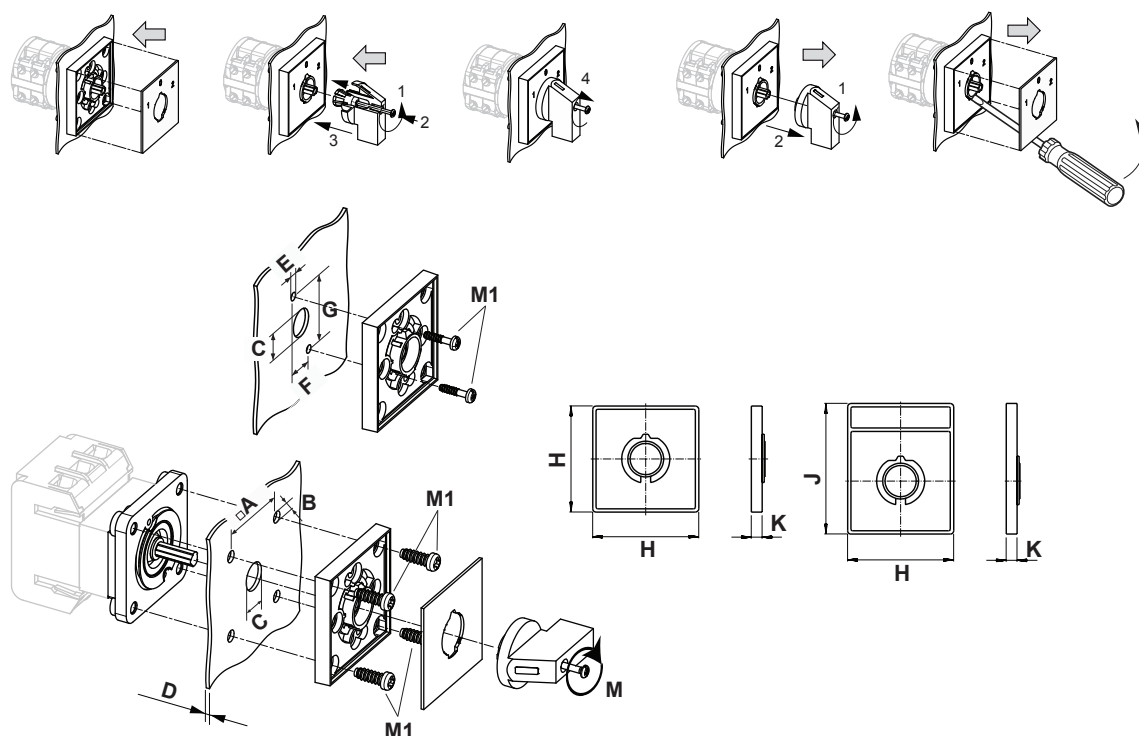
**WARNING:** This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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                    | □  | 36,00 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  | 48,00 mm         |
| J                    | H  | 59,00 mm         |
| K                    | H  | 6,30 mm          |
| M                    | M̂ | 0,50 Nm          |
| M1                   | M̂ | 0,90 Nm          |



Wiring diagram

KG20A.T303.E



## Switch program

KG20A.T303.E



Kraus & Naimer

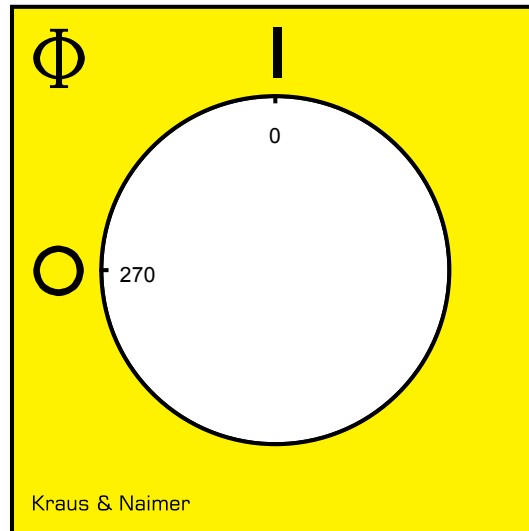
**KG20A**
**T303**
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| Face Plate                                                                                                                                                                                     |     |    |    |    |   |    |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----|---|----|----|----|----|
|                                                                                                               |     | L1 | L2 | L3 |   |    |    |    |    |
|                                                                                                                                                                                                |     | 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 |   |    |    |    |    |
| 0                                                                                                                                                                                              | 270 |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
| 1                                                                                                                                                                                              | 0   | ■  | ■  | ■  |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                | 90  |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                | 180 |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |
|                                                                                                                                                                                                |     |    |    |    |   |    |    |    |    |

Version: 102

## Face plate

S0.F456/E10.E1LH



## PADLOCK DEVICE

**Designation:** S0.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

