

Sample image

## Datasheet

**Article number:** 70024970

**Designation:** KG20A.T103/01.FTF

**Description:** Switch Global Disconnecter

|                                                                                                                                                                                                                                                                                                        |                           |                                                                        |                 |              |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|-----------------|--------------|---------------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                                                                                                                                                              |                           |                                                                        |                 |              |                           |
| Märkdraftspänning Ui                                                                                                                                                                                                                                                                                   |                           |                                                                        |                 |              |                           |
| Spänning (V) AC / DC                                                                                                                                                                                                                                                                                   |                           |                                                                        |                 |              |                           |
| 690 AC                                                                                                                                                                                                                                                                                                 |                           |                                                                        |                 |              |                           |
| Märkdraftström vid konstant drift                                                                                                                                                                                                                                                                      |                           |                                                                        |                 |              |                           |
| Ström (A)                                                                                                                                                                                                                                                                                              | Omgivningstemperatur (°C) | Temperatur topp (°C) ytterligare krav                                  |                 |              |                           |
| 25                                                                                                                                                                                                                                                                                                     | 50                        | 55 Omginingstemperatur +50°C under 24 timmar med toppar upp till +55°C |                 |              |                           |
| Märkdraftström Ie                                                                                                                                                                                                                                                                                      |                           |                                                                        |                 |              |                           |
| Urvals kriterie                                                                                                                                                                                                                                                                                        |                           | Spänning (V)                                                           |                 |              | Ström (A)                 |
| AC-32A                                                                                                                                                                                                                                                                                                 |                           | 20 - 400                                                               |                 |              | 20                        |
| Märkdrafteffekt                                                                                                                                                                                                                                                                                        |                           |                                                                        |                 |              |                           |
| Urvals kriterie                                                                                                                                                                                                                                                                                        | Spänning (V)              | No. of phases                                                          | No. of poles    |              | Effekt (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 försäkring, IEC                                                                                                                                                                                                                                                                                    |                           |                                                                        |                 |              |                           |
| Säkringskaraktéristik                                                                                                                                                                                                                                                                                  |                           |                                                                        | Antal säkringar |              | Ström (A)                 |
| gG                                                                                                                                                                                                                                                                                                     |                           |                                                                        | 1               |              | 35                        |
| UL60947-4-1 , UL508                                                                                                                                                                                                                                                                                    |                           |                                                                        |                 |              |                           |
| Nominal Voltage                                                                                                                                                                                                                                                                                        |                           |                                                                        |                 |              |                           |
| Spänning (V) AC / DC                                                                                                                                                                                                                                                                                   |                           |                                                                        |                 |              |                           |
| 600 AC                                                                                                                                                                                                                                                                                                 |                           |                                                                        |                 |              |                           |
| Märkdraftspänning Ui                                                                                                                                                                                                                                                                                   |                           |                                                                        |                 |              |                           |
| Spänning (V) AC / DC                                                                                                                                                                                                                                                                                   |                           |                                                                        |                 |              |                           |
| 600 AC                                                                                                                                                                                                                                                                                                 |                           |                                                                        |                 |              |                           |
| Rated thermal current                                                                                                                                                                                                                                                                                  |                           |                                                                        |                 |              |                           |
| Ström (A)                                                                                                                                                                                                                                                                                              |                           | Omgivningstemperatur (°C) Additional Text                              |                 |              |                           |
| 25                                                                                                                                                                                                                                                                                                     |                           | 0 - 40 --                                                              |                 |              |                           |
| Horsepower rating                                                                                                                                                                                                                                                                                      |                           |                                                                        |                 |              |                           |
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                         |                           | Spänning (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                                                                                                                                                                                                                                                                                                    |                           | 200 - 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                                                                                                                                                                                                                                                                                                   |                           |                                                                        |                 |              |                           |
| 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)                                                                                                                                                                                                                                                                                |                           |                                                                        | Ström (A) Text  |              |                           |
| 60 - 75                                                                                                                                                                                                                                                                                                |                           |                                                                        | -- --           |              |                           |
| General Use                                                                                                                                                                                                                                                                                            |                           |                                                                        |                 |              |                           |
| AC / DC                                                                                                                                                                                                                                                                                                | Spänning (V)              | Ström (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                                                                                                                |                   |                               |                                    |              |                           |                                                                                       |
| - När brytaren används som säkerhetsbrytare skall den vara utrustad med vred som är låsbart i läge "0".             |                   |                               |                                    |              |                           |                                                                                       |
| CSA                                                                                                                 |                   |                               |                                    |              |                           |                                                                                       |
| Nominal Voltage                                                                                                     |                   |                               |                                    |              |                           |                                                                                       |
|                                                                                                                     |                   |                               | Spänning (V) AC / DC               |              |                           |                                                                                       |
|                                                                                                                     |                   |                               | 600 AC                             |              |                           |                                                                                       |
| Märkdriftspänning Ui                                                                                                |                   |                               |                                    |              |                           |                                                                                       |
|                                                                                                                     |                   |                               | Spänning (V) AC / DC               |              |                           |                                                                                       |
|                                                                                                                     |                   |                               | 600 AC                             |              |                           |                                                                                       |
| Rated thermal current                                                                                               |                   |                               |                                    |              |                           |                                                                                       |
|                                                                                                                     |                   | Ström (A)                     | Omgivningstemperatur (°C)          |              | Additional Text           |                                                                                       |
|                                                                                                                     |                   | 25                            | 0 - 40                             |              | --                        |                                                                                       |
| Horsepower rating                                                                                                   |                   |                               |                                    |              |                           |                                                                                       |
| Across-the-Line Motor Starting                                                                                      |                   |                               |                                    |              |                           |                                                                                       |
| DOL                                                                                                                 |                   | Spänning (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                                                                                                                 |                   | 220 - 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                                                                                                                |                   |                               |                                    |              |                           |                                                                                       |
| Temp. rating of wire                                                                                                |                   |                               |                                    |              |                           |                                                                                       |
|                                                                                                                     |                   | Temperature rating (°C)       | Ström (A)                          |              | Text                      |                                                                                       |
|                                                                                                                     |                   | 75                            | --                                 |              | --                        |                                                                                       |
| General Use                                                                                                         |                   |                               |                                    |              |                           |                                                                                       |
| AC / DC                                                                                                             | Spänning (V)      | Ström (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                                                                                                         |                   |                               |                                    |              |                           |  |
| Rekomenderad skruvmejsel                                                                                            |                   |                               |                                    |              |                           |                                                                                       |
| Typ av skruvmejsel                                                                                                  |                   |                               | Value                              |              |                           |                                                                                       |
| Stjärnskruvmejsel                                                                                                   |                   |                               | 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.                                                 |                   |                               |                                    |              |                           |                                                                                       |
| - Smörjning och behandling av kontakterna är förbjuden.                                                             |                   |                               |                                    |              |                           |                                                                                       |
| - Inkoppling och service av strömställaren får endast utföras av behörig personal. Strömställaren är underhållsfri. |                   |                               |                                    |              |                           |                                                                                       |
| - Använd endast koppar kabel. Kabeln får inte förtennas.                                                            |                   |                               |                                    |              |                           |                                                                                       |

## General Information

### Text

- Alla anslutningsskruvar måste dras med rekommenderat moment, även de som inte används då det kan finnas interna överkopplingar.

### 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



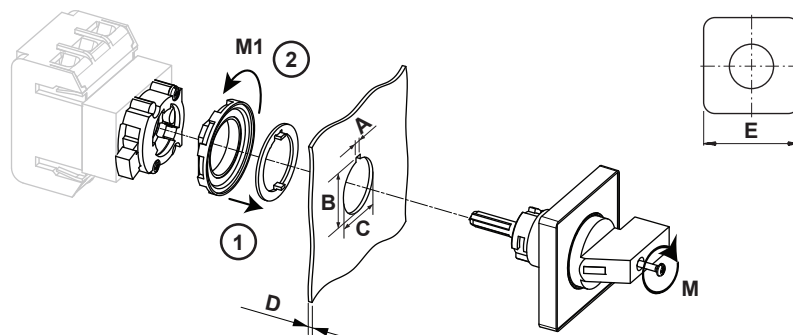
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

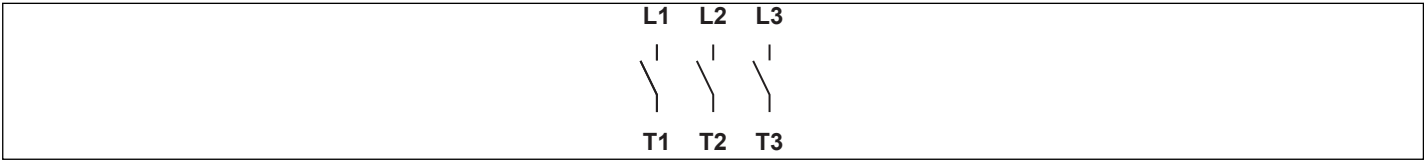
## Mounting-FT2



|                            |    |                   |
|----------------------------|----|-------------------|
| Skyddsklass frontpanel, IP |    | IP66, IP67, IP69k |
| Stages                     |    | 1,00 - 5,00       |
| A                          | H  | 3,20 mm           |
| A+_tol.                    | H  | 0,20 mm           |
| A-_tol.                    | H  | 0,00 mm           |
| B                          | H  | 24,10 mm          |
| B+_tol.                    | H  | 0,40 mm           |
| B-_tol.                    | H  | 0,00 mm           |
| C                          | Ø  | 22,30 mm          |
| C+_tol.                    | Ø  | 0,40 mm           |
| C-_tol.                    | Ø  | 0,00 mm           |
| D                          | H  | <= 6,00 mm        |
| E                          | □  | 48,00 mm          |
| M                          | M̄ | 0,50 Nm           |
| M1                         | M̄ | 1,80 Nm           |

Wiring diagram

KG20A.T303.FT2



## Switch program

KG20A.T303.FT2



Kraus & Naimer

**KG20A**
**T303**
**Page 1 of 1**

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

Version: 102

## Face plate

S1.F456/C10.V11H





Sample image

## PADLOCK DEVICE with F-handle ring

**Designation:** S1.V840G/A71/F21

**Colour of F-handle ring:** "A" black

**Colour of face ring:** "7" electro-grey

**Locking position:** "1" at 09:00 (1x90°)

**Type of mounting:** "F" for type of mounting \*FT2 and \*FH3

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

**Type of version:** "1" for next smaller switch size (IP65)

