



Sample image

## Datasheet

**Article number:** 70010792

**Designation:** KG80.T204/09.VE

**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                                                    |                           |                          |
| 80                                                                                                                                                                                                                                     | 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                  |                |                                                                     | 80                        |                          |
| Märkdrafteffekt                                                                                                                                                                                                                        |                           |                           |                |                                                                     |                           |                          |
| Urvals kriterie                                                                                                                                                                                                                        | Spänning (V)              | No. of phases             |                | No. of poles                                                        | Effekt (kW)               |                          |
| AC-3                                                                                                                                                                                                                                   | 220 - 240                 | 3                         |                | 3                                                                   | 15                        |                          |
| AC-3                                                                                                                                                                                                                                   | 380 - 440                 | 3                         |                | 3                                                                   | 22                        |                          |
| AC-3                                                                                                                                                                                                                                   | 660 - 690                 | 3                         |                | 3                                                                   | 18,50                     |                          |
| AC-23A                                                                                                                                                                                                                                 | 220 - 240                 | 3                         |                | 3                                                                   | 18,50                     |                          |
| AC-23A                                                                                                                                                                                                                                 | 380 - 440                 | 3                         |                | 3                                                                   | 30                        |                          |
| AC-23A                                                                                                                                                                                                                                 | 660 - 690                 | 3                         |                | 3                                                                   | 22                        |                          |
| Max försäkring, IEC                                                                                                                                                                                                                    |                           |                           |                |                                                                     |                           |                          |
| Säkringskaraktéristik                                                                                                                                                                                                                  |                           |                           |                | Antal säkringar                                                     |                           | Ström (A)                |
| gG                                                                                                                                                                                                                                     |                           |                           |                | 1                                                                   |                           | 80                       |
| 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                                                     |                           |                          |
| 80                                                                                                                                                                                                                                     |                           | 0 - 40                    |                | --                                                                  |                           |                          |
| Horsepower rating                                                                                                                                                                                                                      |                           |                           |                |                                                                     |                           |                          |
| Across-the-Line Motor Starting                                                                                                                                                                                                         |                           | Spänning (V)              | No. of phases  | No. of poles                                                        | Power (HP)                | Ambient temperature [°C] |
| DOL                                                                                                                                                                                                                                    |                           | 110 - 120                 | 1              | 2                                                                   | 5                         | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 220 - 240                 | 1              | 2                                                                   | 10                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 277 - 277                 | 1              | 2                                                                   | 15                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 415 - 415                 | 1              | 2                                                                   | 20                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 440 - 480                 | 1              | 2                                                                   | 20                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 550 - 600                 | 1              | 2                                                                   | 30                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 110 - 120                 | 3              | 3                                                                   | 10                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 220 - 240                 | 3              | 3                                                                   | 25                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 415 - 415                 | 3              | 3                                                                   | 30                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 440 - 480                 | 3              | 3                                                                   | 50                        | 40                       |
| DOL                                                                                                                                                                                                                                    |                           | 550 - 600                 | 3              | 3                                                                   | 50                        | 40                       |
| SCCR / Max. fuse rating                                                                                                                                                                                                                |                           |                           |                |                                                                     |                           |                          |
| Conditions of acceptability                                                                                                                                                                                                            |                           |                           |                |                                                                     |                           |                          |
| These devices are suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses or Circuit Breaker Type SFHA36AT0250, manufactured by General Electric. |                           |                           |                |                                                                     |                           |                          |
| Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes 600V max., when protected by Class J fuses, 100A max.                                                                                  |                           |                           |                |                                                                     |                           |                          |
| Temp. rating of wire                                                                                                                                                                                                                   |                           |                           |                |                                                                     |                           |                          |
| Temperature rating (°C)                                                                                                                                                                                                                |                           |                           | Ström (A) Text |                                                                     |                           |                          |
| 75                                                                                                                                                                                                                                     |                           |                           | -- --          |                                                                     |                           |                          |
| Connecting instructions                                                                                                                                                                                                                |                           |                           |                |                                                                     |                           |                          |
| Markings                                                                                                                                                                                                                               |                           |                           |                |                                                                     |                           |                          |
| Break all lines.                                                                                                                                                                                                                       |                           |                           |                |                                                                     |                           |                          |
| General Use                                                                                                                                                                                                                            |                           |                           |                |                                                                     |                           |                          |
| AC / DC                                                                                                                                                                                                                                | Spänning (V)              | Ström (A)                 | No. of phases  | No. of poles                                                        | No. of contacts in series |                          |
| AC                                                                                                                                                                                                                                     | 277                       | 80                        | 1              | 1                                                                   | 1                         |                          |

| General Use |              |           |               |              |                           |
|-------------|--------------|-----------|---------------|--------------|---------------------------|
| AC / DC     | Spänning (V) | Ström (A) | No. of phases | No. of poles | No. of contacts in series |
| AC          | 600          | 80        | 1             | 2            | 1                         |
| AC          | 600          | 80        | 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. |  |  |  |  |  |
| - 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 |
| 80                    |  | 0 - 40                    |         | --              |

| Horsepower rating              |  |              |               |              |            |
|--------------------------------|--|--------------|---------------|--------------|------------|
| Across-the-Line Motor Starting |  | Spänning (V) | No. of phases | No. of poles | Power (HP) |
| DOL                            |  | 110 - 120    | 1             | 2            | 5          |
| DOL                            |  | 220 - 240    | 1             | 2            | 10         |
| DOL                            |  | 277 - 277    | 1             | 2            | 15         |
| DOL                            |  | 415 - 415    | 1             | 2            | 20         |
| DOL                            |  | 440 - 480    | 1             | 2            | 20         |
| DOL                            |  | 550 - 600    | 1             | 2            | 30         |
| DOL                            |  | 110 - 120    | 3             | 3            | 10         |
| DOL                            |  | 220 - 240    | 3             | 3            | 25         |
| DOL                            |  | 415 - 415    | 3             | 3            | 30         |
| DOL                            |  | 440 - 480    | 3             | 3            | 50         |
| DOL                            |  | 550 - 600    | 3             | 3            | 50         |

| 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          | 80        | 1             | 1            | 1                         |
| AC          | 600          | 80        | 1             | 2            | 1                         |
| AC          | 600          | 80        | 3             | 3            | 1                         |

## GENERAL TECHNICAL INFORMATION

| Size of conductor                                 |                   |                               |                                                 |                      |  |
|---------------------------------------------------|-------------------|-------------------------------|-------------------------------------------------|----------------------|--|
| composition of conductor                          | Min. / Max. value | No. of conductor per terminal | Cross section (mm <sup>2</sup> ) or (AWG/kcmil) | Material of the wire |  |
| solid wire                                        | Min.              | 1                             | 2,5mm <sup>2</sup>                              | Copper               |  |
| flexible wire                                     | Min.              | 1                             | 4mm <sup>2</sup>                                | Copper               |  |
| flexible wire                                     | Max.              | 1                             | 35mm <sup>2</sup>                               | Copper               |  |
| flexible wire                                     | Max.              | 1                             | AWG 2                                           | Copper               |  |
| Single-core or stranded wire                      | Max.              | 1                             | AWG 1/0                                         | Copper               |  |
| Single-core or stranded wire                      | Max.              | 1                             | 50mm <sup>2</sup>                               | Copper               |  |
| flexible wire with sleeve                         | Max.              | 1                             | 35mm <sup>2</sup>                               | Copper               |  |
| flexible wire with ferrule according to DIN 46228 | Min.              | 1                             | 2,5mm <sup>2</sup>                              | Copper               |  |

| Stripping length                                                                    |  |
|-------------------------------------------------------------------------------------|--|
| Length (mm) --                                                                      |  |
|  |  |

| Rekomenderad skruvmejsel               |         |
|----------------------------------------|---------|
| Typ av skruvmejsel                     | Value   |
| Stjärnskruvmejsel                      | PH2     |
| Slot screwdriver according to DIN 5264 | 1,2x6,5 |

| Tightening torque of screws |  |                           |
|-----------------------------|--|---------------------------|
| tightening torque (Nm)      |  | tightening torque (lb-in) |
| 3                           |  | 27                        |

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

## General Information

### Text

- 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 kopparkabel. Kabeln får inte förtennas.
- 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



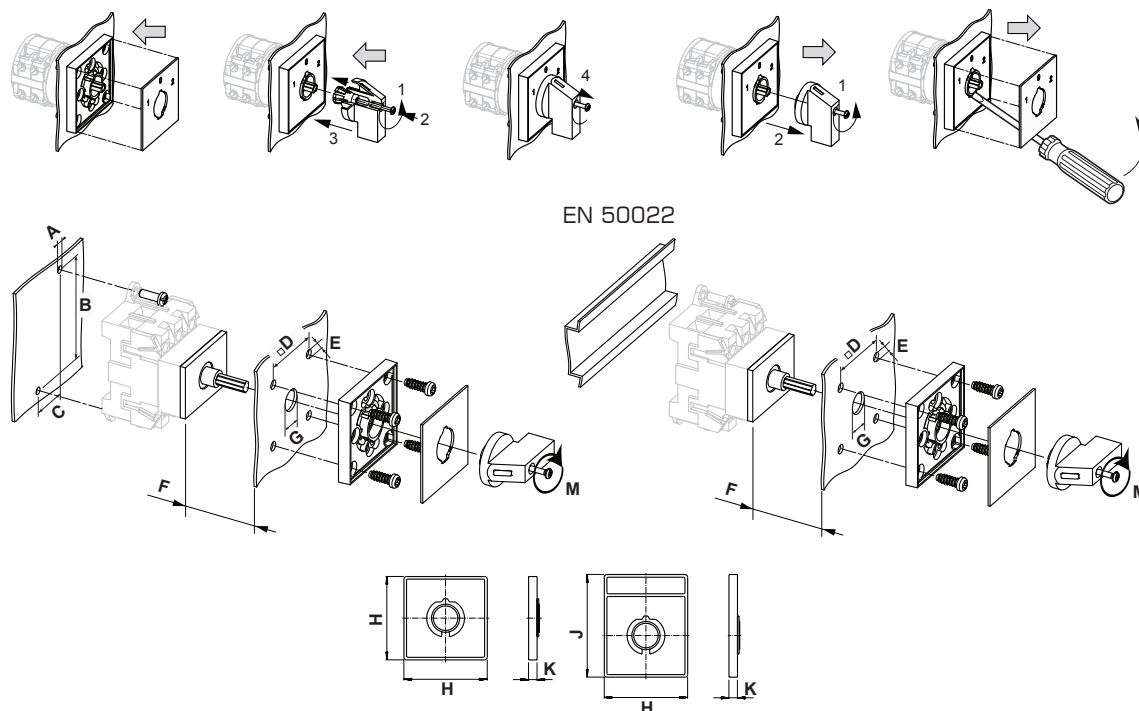
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

## Mounting-VE



|                            |    |                  |
|----------------------------|----|------------------|
| Skyddsklass frontpanel, IP |    | IP40             |
| Stages                     |    | 1,00 - 5,00      |
| A                          | Ø  | 5,20 mm          |
| B                          | H  | 90,00 mm         |
| B_tol.                     | H  | ± 1,00 mm        |
| C                          | H  | 25,00 mm         |
| C_tol.                     | H  | ± 0,50 mm        |
| D                          | □  | 48,00 mm         |
| E                          | Ø  | 5,00 mm          |
| F                          | H  | <= 13,50 mm      |
| G                          | Ø  | 10,00 - 15,00 mm |
| H                          | H  | 64,00 mm         |
| J                          | H  | 78,00 mm         |
| K                          | H  | 7,40 mm          |
| M                          | M̂ | 0,70 Nm          |



Wiring diagram

KG80.T304.VE



## Switch program

KG80.T304.VE

|  Kraus & Naimer         |     | KG80                                                                              |         | T304    |        | Page 1 of 1 |    |    |    |
|----------------------------------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|---------|---------|--------|-------------|----|----|----|
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |
| <b>Face Plate</b>                                                                                        |     |                                                                                   |         |         |        |             |    |    |    |
|                         |     | L1<br>1                                                                           | L2<br>3 | L3<br>5 | N<br>7 | 9           | 11 | 13 | 15 |
|                                                                                                          |     |  |         |         |        |             |    |    |    |
| Switching Angle <input type="text" value="90"/><br>Total switching Angle <input type="text" value="90"/> |     | 2<br>T1                                                                           | 4<br>T2 | 6<br>T3 | 8<br>N | 10          | 12 | 14 | 16 |
| 0                                                                                                        | 270 |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |
| 1                                                                                                        | 0   |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          | 90  |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          | 180 |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |
|                                                                                                          |     |                                                                                   |         |         |        |             |    |    |    |

Version: 94

## Face plate

S1.F456/C10.V11H





Sample image

## PADLOCK DEVICE

with F-handle ring

**Designation:** S1.V840G/D61/B2

**Colour of F-handle ring:** "D" red

**Colour of face ring:** "6" yellow

**Locking position:** "1" at 270° (1x90°)

**Type of mounting:** "B" for type of mounting VE

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



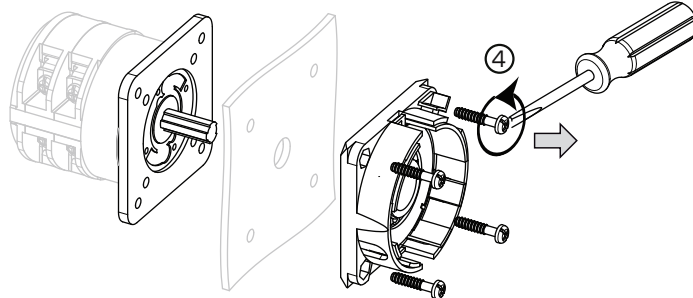
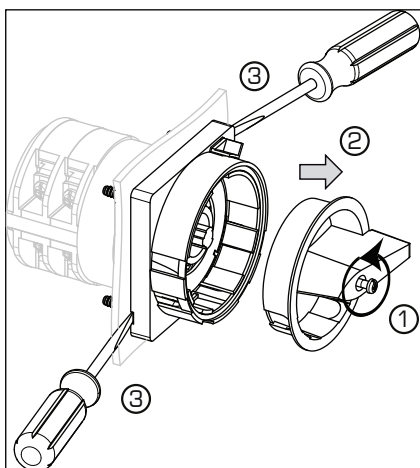
### MOUNTING

1 + 2 The padlock device has to be mounted by four cylinder head screws from the front.

3 Loosen the screw and

4 Push it into the handle onto the shaft

5 Fasten the screw.



1 Loose handle screw

2 remove handle.

3 Insert a proper auxiliary tool at those points of the frame of the device which are marked by a screw driver on the drawing and remove the frame.

4 Fixing screws can be loosen now.



Sample image

## STANDARD DOOR CLUTCH

with shaft extension/asymmetric profile (with arresting screw)

**Designation:** S1.M280E/B21S-EF

**Type of interlock:** "B2" with protected profile and interlock by door clutch

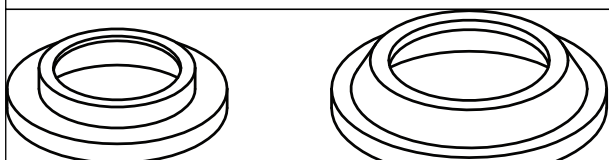
**Shaft length:** "1" 32 - 57 mm

**Application:** "S" for type of mounting VE

**Type of version:** "-EF" splash proof (IP66/67)



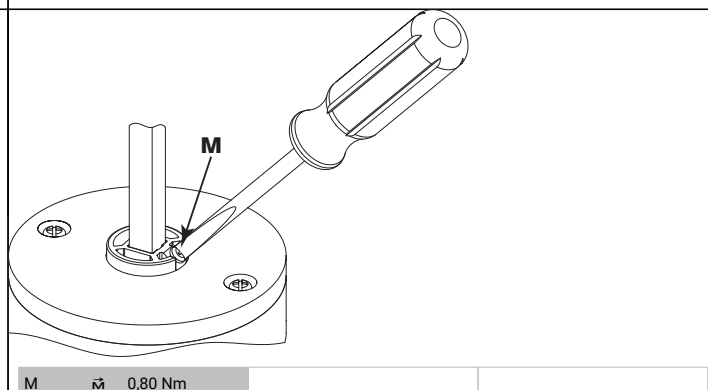
|   |   |          |   |   |         |   |   |                  |
|---|---|----------|---|---|---------|---|---|------------------|
| A | □ | 48,00 mm | B | ∅ | 5,00 mm | C | ∅ | 19,00 - 22,00 mm |
| D | H | 4,00 mm  |   |   |         |   |   |                  |



**S2D V840 10**

**S3D V840 10**

If S2 V840D or S2/S3 V845 will be applied with M280D, M280E or M280F, separately delivered parts S2D V840 10 resp. S3D V840 10 are not needed.



M 0,80 Nm

1. Loosen the screw
2. Move shaft
3. Tighten the screw