

Sample image

## Datasheet

**Article number:** 70010015

**Designation:** KG41B.T203/09.VE

**Description:** Switchgear

|                                                                                                                                                                                                                                                                                                        |             |                          |                          |                                                                     |                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------|--------------------------|---------------------------------------------------------------------|-------------------------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                                                                                                                                                              |             |                          |                          |                                                                     |                                     |
| Rated insulation voltage Ui                                                                                                                                                                                                                                                                            |             |                          |                          |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | Voltage (V) AC / DC      |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | 690 50/60Hz              |                                                                     |                                     |
| Rated uninterrupted current Iu/Ith                                                                                                                                                                                                                                                                     |             |                          |                          |                                                                     |                                     |
| Current (A)                                                                                                                                                                                                                                                                                            |             | Ambient temperature (°C) |                          | Peak temperature (°C) additional requirements                       |                                     |
| 40                                                                                                                                                                                                                                                                                                     |             | 50                       |                          | 55 Ambient temperature +50°C during 24 hours with peaks up to +55°C |                                     |
| Rated operational current Ie                                                                                                                                                                                                                                                                           |             |                          |                          |                                                                     |                                     |
| Utilization category                                                                                                                                                                                                                                                                                   |             |                          | Voltage (V)              |                                                                     | Current (A)                         |
| AC-32A                                                                                                                                                                                                                                                                                                 |             |                          | 20 - 400                 |                                                                     | 40                                  |
| Rated operational power                                                                                                                                                                                                                                                                                |             |                          |                          |                                                                     |                                     |
| Utilization category                                                                                                                                                                                                                                                                                   |             | Voltage (V)              |                          | No. of phases                                                       | No. of poles Power (kW)             |
| AC-3                                                                                                                                                                                                                                                                                                   |             | 220 - 240                |                          | 3                                                                   | 3 7,50                              |
| AC-3                                                                                                                                                                                                                                                                                                   |             | 380 - 440                |                          | 3                                                                   | 3 11                                |
| AC-3                                                                                                                                                                                                                                                                                                   |             | 660 - 690                |                          | 3                                                                   | 3 11                                |
| AC-23A                                                                                                                                                                                                                                                                                                 |             | 220 - 240                |                          | 3                                                                   | 3 7,50                              |
| AC-23A                                                                                                                                                                                                                                                                                                 |             | 380 - 440                |                          | 3                                                                   | 3 15                                |
| AC-23A                                                                                                                                                                                                                                                                                                 |             | 660 - 690                |                          | 3                                                                   | 3 15                                |
| Max. Fuse rating IEC                                                                                                                                                                                                                                                                                   |             |                          |                          |                                                                     |                                     |
| Fuse characteristic                                                                                                                                                                                                                                                                                    |             |                          | No. of Fuses             |                                                                     | Current (A)                         |
| gG                                                                                                                                                                                                                                                                                                     |             |                          | 1                        |                                                                     | 50                                  |
| UL60947-4-1 , UL508                                                                                                                                                                                                                                                                                    |             |                          |                          |                                                                     |                                     |
| Nominal Voltage                                                                                                                                                                                                                                                                                        |             |                          |                          |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | Voltage (V) AC / DC      |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | 600 AC                   |                                                                     |                                     |
| Rated insulation voltage Ui                                                                                                                                                                                                                                                                            |             |                          |                          |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | Voltage (V) AC / DC      |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | 600 AC                   |                                                                     |                                     |
| Rated thermal current                                                                                                                                                                                                                                                                                  |             |                          |                          |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             | Current (A)              | Ambient temperature (°C) |                                                                     | Additional Text                     |
|                                                                                                                                                                                                                                                                                                        |             | 42                       | 0 - 40                   |                                                                     | --                                  |
| Horsepower rating                                                                                                                                                                                                                                                                                      |             |                          |                          |                                                                     |                                     |
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                         |             | Voltage (V)              | No. of phases            | No. of poles                                                        | Power (HP) Ambient temperature [°C] |
| DOL                                                                                                                                                                                                                                                                                                    |             | 110 - 120                | 1                        | 2                                                                   | 2 40                                |
| DOL                                                                                                                                                                                                                                                                                                    |             | 220 - 240                | 1                        | 2                                                                   | 5 40                                |
| DOL                                                                                                                                                                                                                                                                                                    |             | 277 - 277                | 1                        | 2                                                                   | 7,50 40                             |
| DOL                                                                                                                                                                                                                                                                                                    |             | 415 - 415                | 1                        | 2                                                                   | 7,50 40                             |
| DOL                                                                                                                                                                                                                                                                                                    |             | 440 - 480                | 1                        | 2                                                                   | 10 40                               |
| DOL                                                                                                                                                                                                                                                                                                    |             | 550 - 600                | 1                        | 2                                                                   | 10 40                               |
| DOL                                                                                                                                                                                                                                                                                                    |             | 110 - 120                | 3                        | 3                                                                   | 5 40                                |
| DOL                                                                                                                                                                                                                                                                                                    |             | 220 - 240                | 3                        | 3                                                                   | 15 40                               |
| DOL                                                                                                                                                                                                                                                                                                    |             | 415 - 415                | 3                        | 3                                                                   | 15 40                               |
| DOL                                                                                                                                                                                                                                                                                                    |             | 440 - 480                | 3                        | 3                                                                   | 25 40                               |
| DOL                                                                                                                                                                                                                                                                                                    |             | 550 - 600                | 3                        | 3                                                                   | 30 40                               |
| Pilot duty rating code                                                                                                                                                                                                                                                                                 |             |                          |                          |                                                                     |                                     |
| Duty Code                                                                                                                                                                                                                                                                                              |             |                          |                          |                                                                     |                                     |
| A600                                                                                                                                                                                                                                                                                                   |             |                          |                          |                                                                     |                                     |
| SCCR / Max. fuse rating                                                                                                                                                                                                                                                                                |             |                          |                          |                                                                     |                                     |
| Conditions of acceptability                                                                                                                                                                                                                                                                            |             |                          |                          |                                                                     |                                     |
| This device is suitable for use on circuits capable of delivering not more than 10kA rms symmetrical amperes, 600V ac max. when protected by Type RK1 fuses.                                                                                                                                           |             |                          |                          |                                                                     |                                     |
| Suitable for use on a circuit capable of delivering not more than 65000 rms symmetrical amperes 600V max., when protected by 60A Class J fuses.                                                                                                                                                        |             |                          |                          |                                                                     |                                     |
| Temp. rating of wire                                                                                                                                                                                                                                                                                   |             |                          |                          |                                                                     |                                     |
|                                                                                                                                                                                                                                                                                                        |             |                          | Temperature rating (°C)  |                                                                     | Current (A) Text                    |
|                                                                                                                                                                                                                                                                                                        |             |                          | 60 - 75                  |                                                                     | -- --                               |
| General Use                                                                                                                                                                                                                                                                                            |             |                          |                          |                                                                     |                                     |
| AC / DC                                                                                                                                                                                                                                                                                                | Voltage (V) | Current (A)              | No. of phases            | No. of poles                                                        | No. of contacts in series           |
| AC                                                                                                                                                                                                                                                                                                     | 277         | 42                       | 1                        | 1                                                                   | 1                                   |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 42                       | 1                        | 2                                                                   | 1                                   |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 42                       | 3                        | 3                                                                   | 1                                   |
| General Information                                                                                                                                                                                                                                                                                    |             |                          |                          |                                                                     |                                     |
| Text                                                                                                                                                                                                                                                                                                   |             |                          |                          |                                                                     |                                     |
| - The operating handle and position indicating means to be used with these manual motor controllers should be provided from the manufacturer, or the operating handle and position indicating means to be used should have been previously evaluated in combination with the manual motor controllers. |             |                          |                          |                                                                     |                                     |

|                                                                                                                                                                                                                                        |                   |             |                               |                                    |                           |                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------|-------------------------------|------------------------------------|---------------------------|------------------------------------------------------------------------------------------|
| General Information                                                                                                                                                                                                                    |                   |             |                               |                                    |                           |                                                                                          |
| Text                                                                                                                                                                                                                                   |                   |             |                               |                                    |                           |                                                                                          |
| - When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.                                                                                                        |                   |             |                               |                                    |                           |                                                                                          |
| CSA                                                                                                                                                                                                                                    |                   |             |                               |                                    |                           |                                                                                          |
| Nominal Voltage                                                                                                                                                                                                                        |                   |             |                               |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | Voltage (V) AC / DC           |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | 600 AC                        |                                    |                           |                                                                                          |
| Rated insulation voltage Ui                                                                                                                                                                                                            |                   |             |                               |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | Voltage (V) AC / DC           |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | 600 AC                        |                                    |                           |                                                                                          |
| Rated thermal current                                                                                                                                                                                                                  |                   |             |                               |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   | Current (A) | Ambient temperature (°C)      |                                    | Additional Text           |                                                                                          |
|                                                                                                                                                                                                                                        |                   | 40          | 0 - 40                        |                                    | --                        |                                                                                          |
| Horsepower rating                                                                                                                                                                                                                      |                   |             |                               |                                    |                           |                                                                                          |
| Across-the-Line Motor Starting                                                                                                                                                                                                         |                   |             | Voltage (V)                   | No. of phases                      | No. of poles              | Power (HP)                                                                               |
|                                                                                                                                                                                                                                        |                   |             |                               |                                    |                           | Ambient temperature [°C]                                                                 |
| DOL                                                                                                                                                                                                                                    |                   |             | 110 - 120                     | 1                                  | 2                         | 2                                                                                        |
| DOL                                                                                                                                                                                                                                    |                   |             | 220 - 240                     | 1                                  | 2                         | 5                                                                                        |
| DOL                                                                                                                                                                                                                                    |                   |             | 277 - 277                     | 1                                  | 2                         | 7,50                                                                                     |
| DOL                                                                                                                                                                                                                                    |                   |             | 415 - 415                     | 1                                  | 2                         | 7,50                                                                                     |
| DOL                                                                                                                                                                                                                                    |                   |             | 440 - 480                     | 1                                  | 2                         | 10                                                                                       |
| DOL                                                                                                                                                                                                                                    |                   |             | 550 - 600                     | 1                                  | 2                         | 10                                                                                       |
| DOL                                                                                                                                                                                                                                    |                   |             | 110 - 120                     | 3                                  | 3                         | 5                                                                                        |
| DOL                                                                                                                                                                                                                                    |                   |             | 220 - 240                     | 3                                  | 3                         | 15                                                                                       |
| DOL                                                                                                                                                                                                                                    |                   |             | 415 - 415                     | 3                                  | 3                         | 15                                                                                       |
| DOL                                                                                                                                                                                                                                    |                   |             | 440 - 480                     | 3                                  | 3                         | 25                                                                                       |
| DOL                                                                                                                                                                                                                                    |                   |             | 550 - 600                     | 3                                  | 3                         | 30                                                                                       |
| Temp. rating of wire                                                                                                                                                                                                                   |                   |             |                               |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | Temperature rating (°C)       | Current (A) Text                   |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | 75                            | -- --                              |                           |                                                                                          |
| General Use                                                                                                                                                                                                                            |                   |             |                               |                                    |                           |                                                                                          |
| AC / DC                                                                                                                                                                                                                                | Voltage (V)       | Current (A) | No. of phases                 | No. of poles                       | No. of contacts in series |                                                                                          |
| AC                                                                                                                                                                                                                                     | 277               | 40          | 1                             | 1                                  | 1                         |                                                                                          |
| AC                                                                                                                                                                                                                                     | 600               | 40          | 1                             | 2                                  | 1                         |                                                                                          |
| AC                                                                                                                                                                                                                                     | 600               | 40          | 3                             | 3                                  | 1                         |                                                                                          |
| GENERAL TECHNICAL INFORMATION                                                                                                                                                                                                          |                   |             |                               |                                    |                           |                                                                                          |
| Size of conductor                                                                                                                                                                                                                      |                   |             |                               |                                    |                           |                                                                                          |
| composition of conductor                                                                                                                                                                                                               | Min. / Max. value |             | No. of conductor per terminal | Cross section (mm²) or (AWG/kcmil) |                           | Material of the wire                                                                     |
| Flexible wire                                                                                                                                                                                                                          | Max.              |             | 1                             | AWG 6                              |                           | Copper                                                                                   |
| Flexible wire                                                                                                                                                                                                                          | Max.              |             | 1                             | 10mm²                              |                           | Copper                                                                                   |
| Single-core or stranded wire                                                                                                                                                                                                           | Max.              |             | 1                             | AWG 6                              |                           | Copper                                                                                   |
| Single-core or stranded wire                                                                                                                                                                                                           | Max.              |             | 1                             | 16mm²                              |                           | Copper                                                                                   |
| Flexible wire with sleeve                                                                                                                                                                                                              | Max.              |             | 1                             | 10mm²                              |                           | Copper                                                                                   |
| Stripping length                                                                                                                                                                                                                       |                   |             |                               |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             |                               |                                    |                           | Length (mm) --                                                                           |
|                                                                                                                                                                                                                                        |                   |             |                               |                                    |                           | 12  |
| Recommended screw driver                                                                                                                                                                                                               |                   |             |                               |                                    |                           |                                                                                          |
| Type of screw driver                                                                                                                                                                                                                   |                   |             | Value                         |                                    |                           |                                                                                          |
| Cross Screwdriver                                                                                                                                                                                                                      |                   |             | PH2                           |                                    |                           |                                                                                          |
| Slot screwdriver according to DIN 5264                                                                                                                                                                                                 |                   |             | 1,2x6,5                       |                                    |                           |                                                                                          |
| Tightening torque of screws                                                                                                                                                                                                            |                   |             |                               |                                    |                           |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | tightening torque (Nm)        |                                    | tightening torque (lb-in) |                                                                                          |
|                                                                                                                                                                                                                                        |                   |             | 1,80                          |                                    | 16                        |                                                                                          |
| Approbations                                                                                                                                                                                                                           |                   |             |                               |                                    |                           |                                                                                          |
| Specification                                                                                                                                                                                                                          |                   |             |                               |                                    |                           | Marking                                                                                  |
| CE marking                                                                                                                                                                                                                             |                   |             |                               |                                    |                           |     |
| UK Directives                                                                                                                                                                                                                          |                   |             |                               |                                    |                           |     |
| UL 60947-4-1; CSA C22.2 No. 60947-4-1                                                                                                                                                                                                  |                   |             |                               |                                    |                           |     |
| CSA C.22.2 No.14                                                                                                                                                                                                                       |                   |             |                               |                                    |                           |     |
| GB/T14048.3                                                                                                                                                                                                                            |                   |             |                               |                                    |                           |     |
| General Information                                                                                                                                                                                                                    |                   |             |                               |                                    |                           |                                                                                          |
| Text                                                                                                                                                                                                                                   |                   |             |                               |                                    |                           |                                                                                          |
| - Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.                                                                                             |                   |             |                               |                                    |                           |                                                                                          |
| - EMC Note: This device is suitable for use in environment A and B.                                                                                                                                                                    |                   |             |                               |                                    |                           |                                                                                          |
| - Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated. |                   |             |                               |                                    |                           |                                                                                          |
| - After wiring, ALL terminal screws must be tightened to the specified torque values.                                                                                                                                                  |                   |             |                               |                                    |                           |                                                                                          |
| - The protection class of the selected mounting type may vary if optional extras are used.                                                                                                                                             |                   |             |                               |                                    |                           |                                                                                          |

**General Information**
**Text**

- Do not lubricate or treat contacts.
- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.

**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)

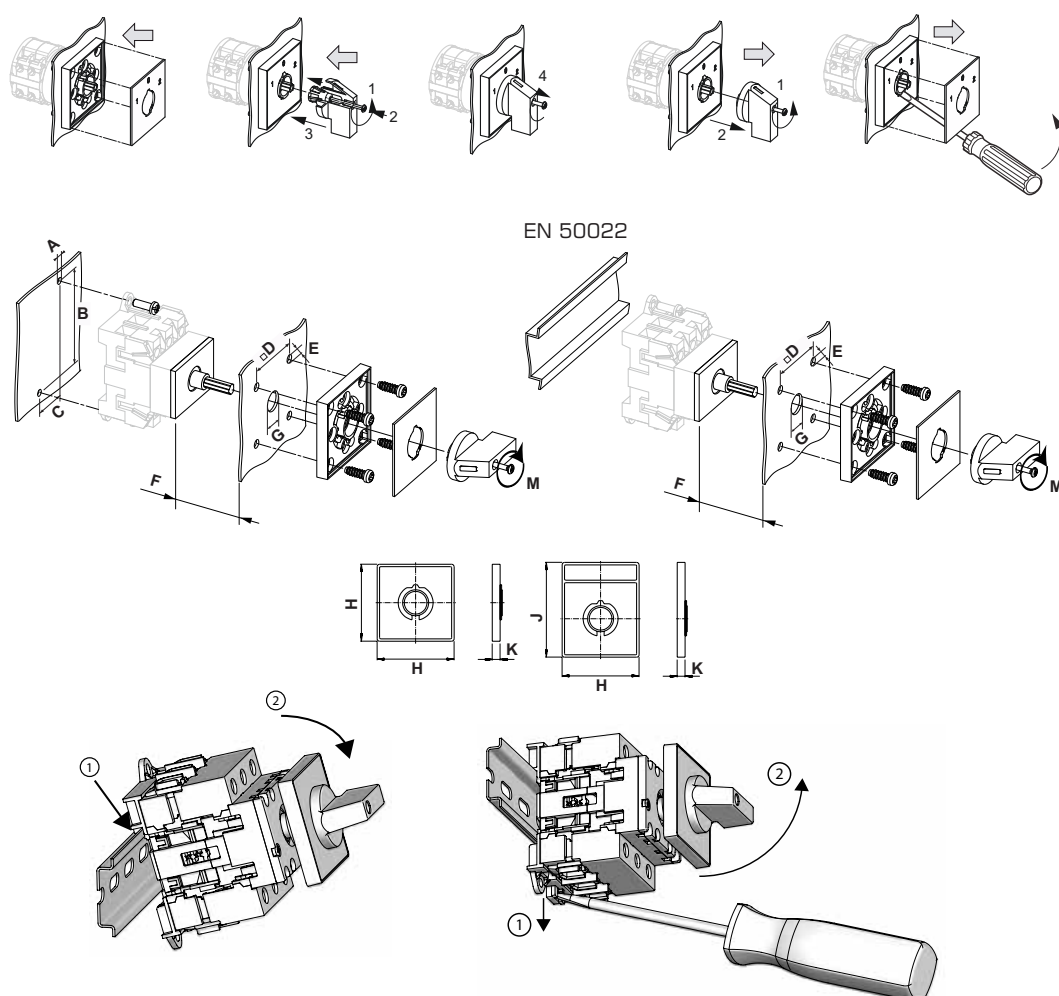
**Proposition 65**
**Picture name**
**Description**


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

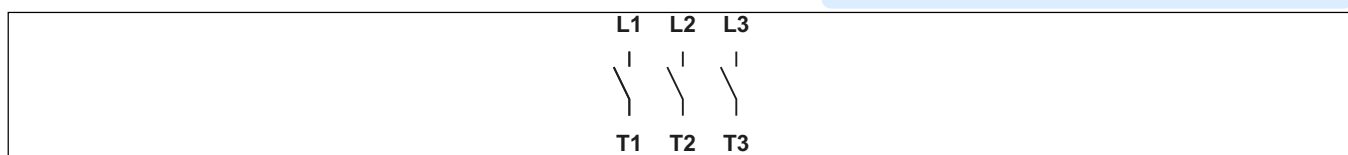
**Mounting-VE**


|                      |             |
|----------------------|-------------|
| IP - Code front side | IP40        |
| Stages               | 1,00 - 5,00 |
| A                    | Ø 4,10 mm   |
| B                    | H 70,00 mm  |
| C                    | H 25,00 mm  |

|   |   |                  |
|---|---|------------------|
| D | □ | 48,00 mm         |
| E | ∅ | 5,00 mm          |
| F | H | <= 13,50 mm      |
| G | ∅ | 10,00 - 15,00 mm |
| H | H | 64,00 mm         |
| J | H | 78,00 mm         |
| K | H | 7,40 mm          |
| M | M | 0,70 Nm          |

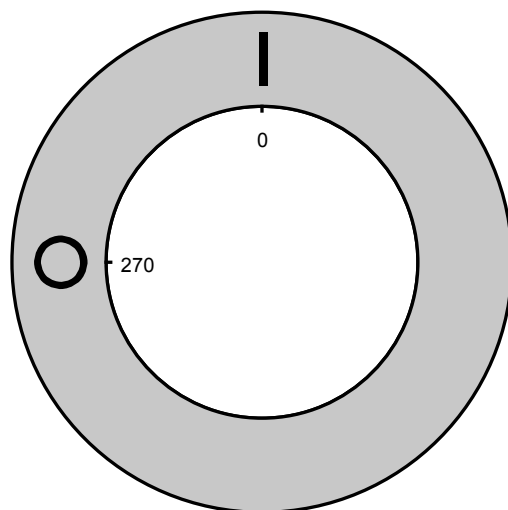
## Wiring diagram

KG41B.T303.VE



## Face plate

S1.F456/C10.V11H





Sample image

## PADLOCK DEVICE

with F-handle ring

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

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

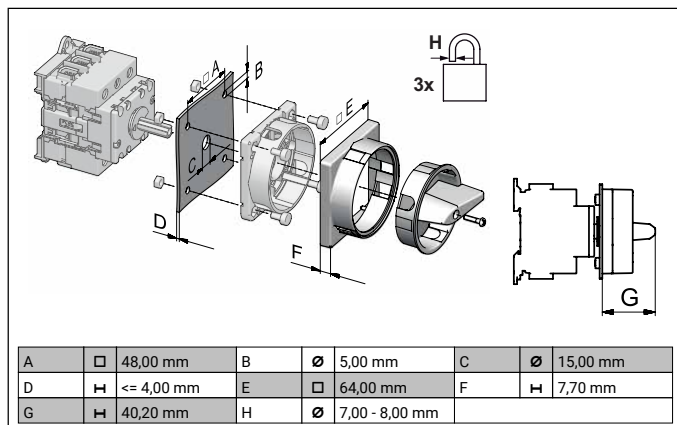
**Color of face plate ring:** "6" yellow

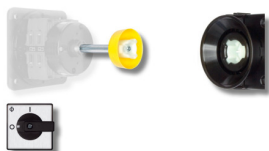
**Locking position:** "1" at 270° (1x90°)

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

**Switch type:** "2" for KA- and KG-switches

**Switch type:** "2" for KHR-switches





Sample image

## STANDARD DOOR CLUTCH

with shaft extension/asymmetric profile (with arresting screw)

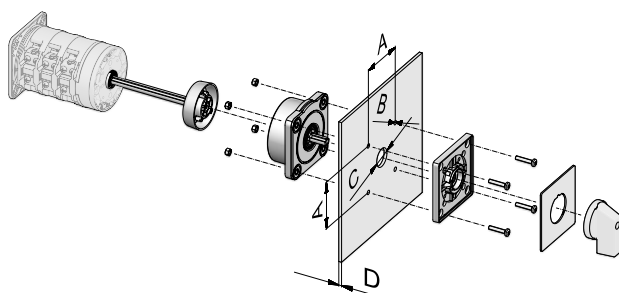
**Designation:** S1.M280E/B24S-EF

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

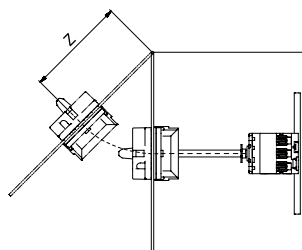
**Shaft length:** "4" 98 - 118 mm

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

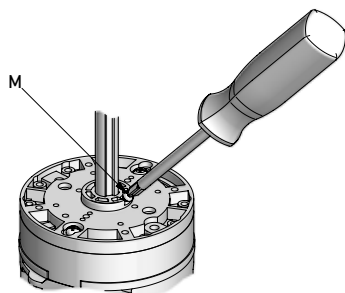
**Type of version:** "-EF" splash proof (IP66/67)



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

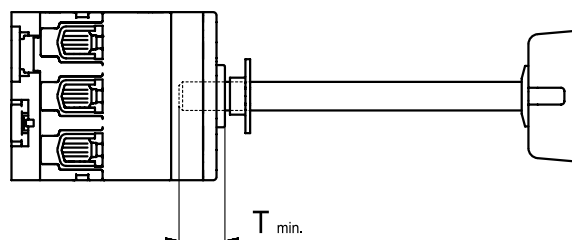


|   |   |              |  |  |
|---|---|--------------|--|--|
| Z | H | >= 100,00 mm |  |  |
|---|---|--------------|--|--|



|   |   |         |  |  |
|---|---|---------|--|--|
| M | M | 0,80 Nm |  |  |
|---|---|---------|--|--|

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



|   |   |             |  |  |
|---|---|-------------|--|--|
| T | H | >= 17,00 mm |  |  |
|---|---|-------------|--|--|

