

Sample image

## Datasheet

**Article number:** 70010824

**Designation:** KG41.T304/58.VE2

**Description:** Switch Global Disconnecter

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

**Temp. rating of wire**

Temperature rating (°C) Current (A) Text  
75 -- --

**General Use**

| AC / DC | Voltage (V) | Current (A) | No. of phases | No. of poles | No. of contacts in series |
|---------|-------------|-------------|---------------|--------------|---------------------------|
| AC      | 277         | 40          | 1             | 1            | 1                         |
| AC      | 600         | 40          | 1             | 2            | 1                         |
| AC      | 600         | 40          | 3             | 3            | 1                         |

**GENERAL TECHNICAL INFORMATION**
**Size of conductor**

| composition of conductor                          | Min. / Max. value | No. of conductor per terminal | Cross section (mm²) or (AWG/kcmil) | Material of the wire |
|---------------------------------------------------|-------------------|-------------------------------|------------------------------------|----------------------|
| solid wire                                        | Min.              | 2                             | 0.75mm²                            | Copper               |
| solid wire                                        | Min.              | 1                             | 1.5mm²                             | Copper               |
| flexible wire                                     | Max.              | 1                             | AWG 6                              | Copper               |
| flexible wire                                     | Min.              | 1                             | 2.5mm²                             | Copper               |
| flexible wire                                     | Max.              | 1                             | 10mm²                              | Copper               |
| flexible wire                                     | Min.              | 2                             | 1.5mm²                             | 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               |
| flexible wire with ferrule according to DIN 46228 | Min.              | 2                             | 0.75mm²                            | Copper               |
| flexible wire with ferrule according to DIN 46228 | Min.              | 1                             | 1.5mm²                             | Copper               |

**Stripping length**

Length (mm) --


**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                                                                               |
|------------------|---------------------------------------------------------------------------------------|
| 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.

## 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.
- Use copper wire only. Do not coat the wire end with tin.
- Terminals with factory fitted jumper links are tightened during production. Take care during installation to ensure factory fitted links are not lost by undoing both sides of linked terminals. After wiring, all terminal screws must be tightened to recommended torque specifications.

### Waste Electrical & Electronic Equipment (WEEE)

| Picture name                                                                     | Description                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at <a href="http://www.krausnaimer.com">www.krausnaimer.com</a> |

### Proposition 65

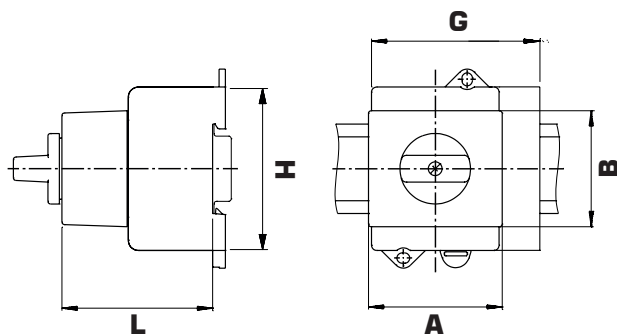
| Picture name                                                                     | Description                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

## Mounting-VE2



| IP - Code front side |   | IP20        |
|----------------------|---|-------------|
| Stages               |   | 4,00 - 4,00 |
| A                    | H | 52,40 mm    |
| B                    | H | 45,40 mm    |
| G                    | H | 66,00 mm    |
| H                    | H | 64,00 mm    |
| L                    | H | 56,50 mm    |



Wiring diagram

KG41.T304.VE2



## Switch program

KG41.T304.VE2



Kraus & Naimer

KG41
T304

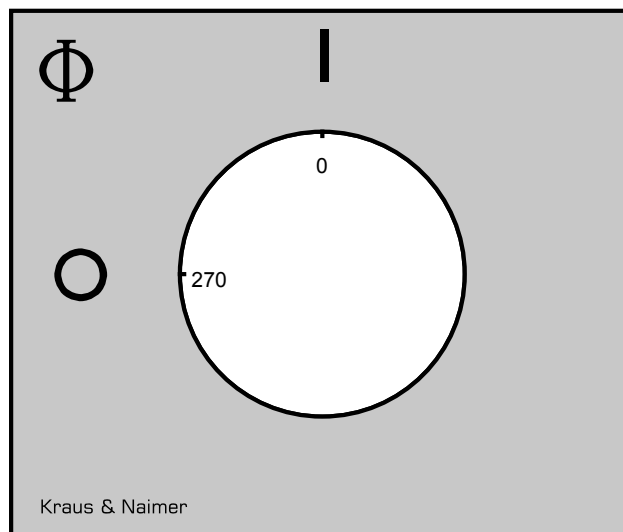
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| Face Plate                                                                                                                                                             |     |    |    |    |   |    |    |    |    |
|----------------------------------------------------------------------------------------------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

Version: 94

## Face plate

K1.F456/C10.VE2



## PADLOCK DEVICE

with type F-handle for type of mounting VE2 and VE21

**Designation:** S0.V840B/E7D

**Lock bow diameter:** "E" for lock bow diameter 4,5-6mm

**Colour of handle:** "7" electro-grey, locking bar flag red

**Type of mounting:** "D" for type of mounting VE2 - for KA40-KA63B, KG20A/KG32A, KG41-KG64B, KG80/KG100 and KH(R)16-KH(R)80

