



Sample image

## Datasheet

**Article number:** 70010020

**Designation:** KG41.T204/40.KL11V

**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                         |                          |

| General Use |             |             |               |              |                           |
|-------------|-------------|-------------|---------------|--------------|---------------------------|
| AC / DC     | Voltage (V) | Current (A) | No. of phases | No. of poles | No. of contacts in series |
| 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.

- 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 |  |

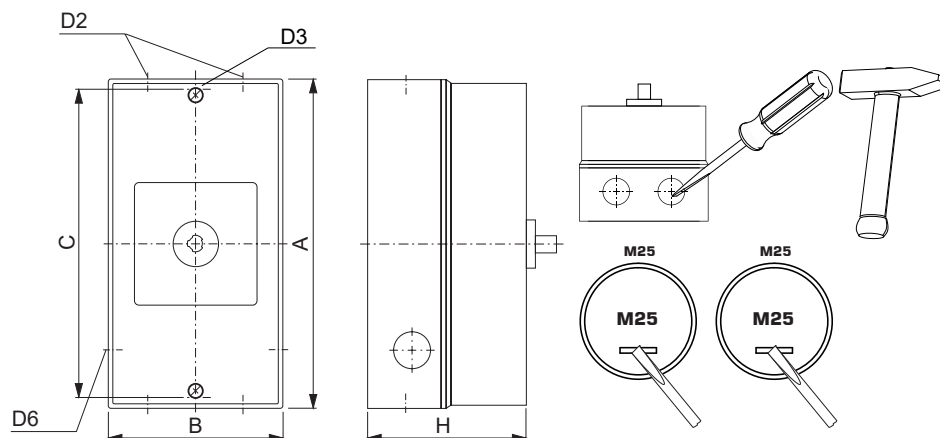
| Approbations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Marking                                                                                                                                                                                                                                                                                                                                                                            |
| GB/T14048.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <br>GB/T14048.3                                                                                                                                                                                                                                                                                 |
| General Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                    |
| Text                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>- EMC Note: This device is suitable for use in environment A and B.</p> <p>- Do not lubricate or treat contacts.</p> <p>- Switches may only be mounted, connected and set into operation by qualified persons according to the accepted rules of technology.</p> <p>- Use copper wire only. Do not coat the wire end with tin.</p> <p>- 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.</p> |                                                                                                                                                                                                                                                                                                                                                                                    |
| 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-KL11V

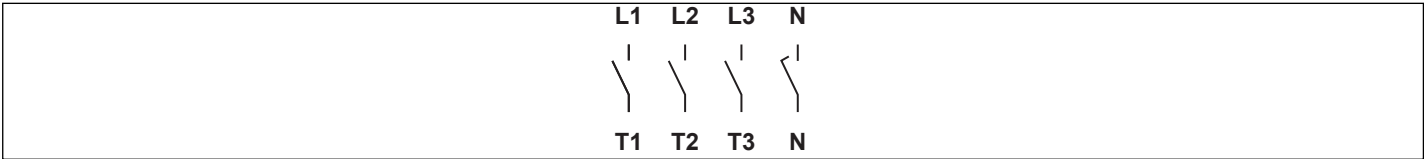


| IP - Code front side |   | IP66, IP67, IP69k |
|----------------------|---|-------------------|
| Stages               |   | 1,00 - 5,00       |
| A                    | H | 190,00 mm         |
| B                    | H | 100,00 mm         |
| C                    | H | 178,00 mm         |
| D2                   | Ø | 4,00 x M25        |
| D3                   | Ø | 5,60 mm           |
| D6                   | Ø | 2,00 x M25        |
| H                    | H | 93,00 mm          |



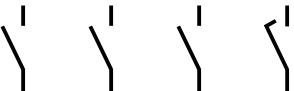
Wiring diagram

KG41.T304.KL11V



## Switch program

KG41.T304.KL11V

|  Kraus & Naimer         |     | KG41                                                                               |                                                                                    | T304                                                                               |                                                                                    | Page 1 of 1 |    |    |    |
|----------------------------------------------------------------------------------------------------------|-----|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|----|----|----|
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
| <b>Face Plate</b><br>   |     | L1<br>1                                                                            | L2<br>3                                                                            | L3<br>5                                                                            | N<br>7                                                                             | 9           | 11 | 13 | 15 |
|                                                                                                          |     |   |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
| Switching Angle <input type="text" value="90"/><br>Total switching Angle <input type="text" value="90"/> |     | 2<br>T1                                                                            | 4<br>T2                                                                            | 6<br>T3                                                                            | 8<br>N                                                                             | 10          | 12 | 14 | 16 |
| 0                                                                                                        | 270 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
| 1                                                                                                        | 0   |  |  |  |  |             |    |    |    |
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          | 90  |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          | 180 |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |
|                                                                                                          |     |                                                                                    |                                                                                    |                                                                                    |                                                                                    |             |    |    |    |

Version: 94

## Face plate

S1.F656/E10.V9



## AUXILIARY CONTACTS

(cam operated) for switch type KG20 - KG100C and KH(R)16 - KH(R)25B

**Designation:** K1.M510A/2CA-B

**Number of contacts:** "2" 2 auxiliary contacts

**Operation of contacts:** "C" 1 auxiliary contact closed in pos. 1 and 1 auxiliary contact closed in pos. 0 (NO/NC)

**Type of version:** "A" 1. auxiliary contact module

**Type of mounting:** "-B" for type of mounting VE, VE2, silver contacts

### IEC 60947-3 EN 60947-3, VDE 0660 Teil 107

| Nominal Voltage |         |
|-----------------|---------|
| Voltage (V)     | AC / DC |
|                 | 690 AC  |

| Rated uninterrupted current I <sub>u</sub> /I <sub>th</sub> |                          |                       |                                                                  |
|-------------------------------------------------------------|--------------------------|-----------------------|------------------------------------------------------------------|
| Current (A)                                                 | Ambient temperature (°C) | Peak temperature (°C) | additional requirements                                          |
| 16                                                          | 55                       | 60                    | Ambient temperature +55°C during 24 hours with peaks up to +60°C |

| Rated operational current I <sub>e</sub> |             |
|------------------------------------------|-------------|
| Utilization category                     | Voltage (V) |
| AC-15                                    | 110 - 240   |
| AC-15                                    | 380 - 440   |
| AC-15                                    | 500         |
| AC-21A                                   | 20 - 690    |
|                                          | Current (A) |
|                                          | 6           |
|                                          | 3           |
|                                          | 1,50        |
|                                          | 16          |

### UL60947-4-1, UL508

| Nominal Voltage |         |
|-----------------|---------|
| Voltage (V)     | AC / DC |
|                 | 600 AC  |

| Rated insulation voltage U <sub>i</sub> |         |
|-----------------------------------------|---------|
| Voltage (V)                             | AC / DC |
|                                         | 600 AC  |

| Rated thermal current |                          |                 |
|-----------------------|--------------------------|-----------------|
| Current (A)           | Ambient temperature (°C) | Additional Text |
| 10                    | 0 - 40                   | --              |

| Pilot duty rating code |  |
|------------------------|--|
| Duty Code              |  |
| A600                   |  |

| General Use |             |             |               |              |                           |
|-------------|-------------|-------------|---------------|--------------|---------------------------|
| AC / DC     | Voltage (V) | Current (A) | No. of phases | No. of poles | No. of contacts in series |
| AC          | 600         | 10          | 1             | 1            | 1                         |

### GENERAL TECHNICAL INFORMATION

| Size of conductor                                 |                   |                               |                                                 |                      |
|---------------------------------------------------|-------------------|-------------------------------|-------------------------------------------------|----------------------|
| composition of conductor                          | Min. / Max. value | No. of conductor per terminal | Cross section (mm <sup>2</sup> ) or (AWG/kcmil) | Material of the wire |
| solid wire                                        | Min.              | 1                             | 0.5mm <sup>2</sup>                              | Copper               |
| solid wire                                        | Min.              | 2                             | 0.5mm <sup>2</sup>                              | Copper               |
| flexible wire                                     | Min.              | 1                             | 0.75mm <sup>2</sup>                             | Copper               |
| flexible wire                                     | Min.              | 2                             | 0.75mm <sup>2</sup>                             | Copper               |
| flexible wire                                     | Max.              | 2                             | 2.5mm <sup>2</sup>                              | Copper               |
| flexible wire                                     | Max.              | 2                             | AWG 14                                          | Copper               |
| Single-core or stranded wire                      | Max.              | 2                             | AWG 12                                          | Copper               |
| Single-core or stranded wire                      | Max.              | 2                             | 2.5mm <sup>2</sup>                              | Copper               |
| flexible wire with ferrule according to DIN 46228 | Max.              | 2                             | 2.5mm <sup>2</sup>                              | Copper               |
| flexible wire with ferrule according to DIN 46228 | Min.              | 1                             | 0.5mm <sup>2</sup>                              | Copper               |
| flexible wire with ferrule according to DIN 46228 | Min.              | 2                             | 0.5mm <sup>2</sup>                              | Copper               |

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



| Recommended screw driver               |       |
|----------------------------------------|-------|
| Type of screw driver                   | Value |
| Cross Screwdriver                      | PH1   |
| Slot screwdriver according to DIN 5264 | 0,8x4 |

| Tightening torque of screws |                           |
|-----------------------------|---------------------------|
| tightening torque (Nm)      | tightening torque (lb-in) |
| 0,60                        | 5                         |

## 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.

|    |    |
|----|----|
| 13 | 21 |
| 14 | 22 |