



Sample image

KG20

Classification Contact: Rigid contact bridge Classification Contact Mat: Silver Classification Terminal: Screw terminal Contact development: T306 Type of mounting: VE Reference number: KG20 T106/NL-EXBA KNBOX (70022634)

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

| | 47-3, VDL 0000 Tell 107 | | | | | | |
|--------------------------------|---|-------------------------|--------------|---------------------|-----------------|-----------------------|--------------------------|
| Rated insulation voltage Ui | | | | | | | |
| | | Voltage | (V) AC | / DC | | | |
| | | | 690 AC | | | | |
| Rated uninterrupted current | lu/lth | | | | | | |
| Current (A) | Ambient temperature (°C) | Peak temperature (°C) | additiona | l requirements | | | |
| 25 | 50 | 55 | Ambient | temperature +50°C | during 24 hours | with peaks up to +55° | 0 |
| Rated operational current le | | | | | | | |
| Utilization category | | | | Volta | age (V) | | Current (A) |
| AC-32A | | | | 2 | 0 - 400 | | 20 |
| Rated operational power | | | | | | | |
| Utilization category | Voltage (V) | No. of pha | ises | No. o | f poles | Power (kV | V) Current (A) |
| AC-3 | 220 - 240 | | 3 | | 3 | | 4 |
| AC-3 | 380 - 440 | | 3 | | 3 | 5,5 | 50 11,50 |
| AC-3 | 660 - 690 | | 3 | | 3 | 5,5 | 50 - |
| AC-23A | 220 - 240 | | 3 | | 3 | 5,5 | |
| AC-23A | 380 - 440 | | 3 | | 3 | 7,5 | 50 15,50 |
| AC-23A | 660 - 690 | | 3 | | 3 | 7,5 | 50 |
| Max. Fuse rating IEC | | | | | | | |
| Fuse characteristic | | | | | No. of Fu | ses | Current (A) |
| gG | | | | | | 1 | 35 |
| UL60947-4-1 , UL508 | 3 | | | | | | |
| Horsepower rating | | | | | | | |
| Across-the-Line Motor Startin | ng | Vo | oltage (V) | No. of phases | No. of poles | Power (HP) | Ambient temperature [°C] |
| DOL | | : | 200 - 240 | 3 | 3 | 7,50 | 40 |
| SCCR / Max. fuse rating | | | | | | | |
| Conditions of acceptability | | | | | | | |
| This device is suitable for us | e on circuits capable of delivering not n | nore than 10kA rms symm | netrical amp | peres, 600V ac max | when protecte | d by Type RK1 fuses. | |
| | capable of delivering not more than 650 | 000 rms symmetrical amp | eres at 600 | V max., when protec | cted by 40A Cla | ss J fuses. | |
| Temp. rating of wire | | | | | | | |
| | Temperature rating (°C) | | | Curr | ent (A) Text | | |

| Temperature rating (°C) | Current (A) Text |
|-------------------------|------------------|
| 60 - 75 | |
| 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 disconnector the device shall be provided with a method of being locked in the OFF-position.

| Nominal Voltage | | | | | |
|--------------------------------|-----------|------------------|-----------------|--------------|--------------------------|
| Voltag | ge (V) | AC/DC | | | |
| | 600 | AC | | | |
| Rated insulation voltage Ui | | | | | |
| Voltag | ge (V) . | AC/DC | | | |
| | 600 | AC | | | |
| Rated thermal current | | | | | |
| Current (A) | | Ambient tempera | ture (°C) Add | itional Text | |
| 25 | | | 0 - 40 | | |
| Horsepower rating | | | | | |
| Across-the-Line Motor Starting | Voltage (| V) No. of phases | No. of poles | Power (HP) | Ambient temperature [°C] |
| DOL | 110 - 12 | 20 1 | 2 | 1 | 40 |



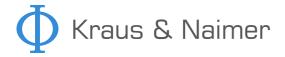
Datasheet

| Assess the Line Mate - Otanting | | | Valtaria (10) | No of alterna | No. of | Deuver (UD) | Amphienttennent |
|---|--|--|---|---|---|--------------------|---|
| Across-the-Line Motor Starting | | | Voltage (V) | No. of phases | poles | Power (HP) | Ambient temperature [°C |
| DOL | | | 220 - 240 | 1 | 2 | 3 | 4 |
| OOL | | | 277 - 277 | 1 | 2 | 3 | 4 |
| OOL | | | 415 - 415 | 1 | 2 | 5 | 4 |
| OOL | | | 440 - 480 | 1 | 2 | 5 | 4 |
| DOL | | | 550 - 600 | 1 | 2 | 5 | 4 |
| DOL | | | 110 - 120 | 3 | 3 | 2 | 4 |
| DOL | | | 415 - 415 | 3 | 3 | 10 | 4 |
| DOL | | | 440 - 480 | 3 | 3 | 15 | 4 |
| DOL | | | 550 - 600 | 3 | 3 | 20 | 4 |
| Pilot duty rating code | | | | | | | |
| Duty Code | | | | | | | |
| A600 | | | | | | | |
| General Use | | | | _ | _ | _ | |
| | Current (A) | No. of phases | No. of pole | | | | No. of contacts in serie |
| AC 277 | 25 | 1 | | 1 | | | |
| AC 600 | 25 | 1 | | 2 | | | |
| AC 600 | 25 | 3 | | 3 | | | |
| CSA | | | | | | | |
| lorsepower rating | | | | | | | |
| Across-the-Line Motor Starting | | | Voltage (V) | No. of phases | No. of | Power (HP) | Ambient temperature [°C |
| Ĵ | | | | | poles | | |
| DOL . | _ | | 220 - 240 | 3 | 3 | 7,50 | 4 |
| Temp. rating of wire | Tomonoroturo | rating (°C) | | Curren | t (A) Taxt | | |
| 1 | Temperature | 75 | | Curren | ot (A) Text | | |
| | | | | | | | |
| GENERAL TECHNICAL INFORM | MATION | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | _ | | | | Cross secti | on (mm²) or | |
| | | Min. / Max. value | No. of co | nductor per terminal | Cross secti (AWG/kcm | on (mm²) or il) | Material of the wire |
| composition of conductor | | <i>Min. / Max. value</i> Min. | No. of co | nductor per terminal 1 | Cross secti (AWG/kcm 0.75mm² | on (mm²) or I) | Material of the wire Copper |
| composition of conductor Solid wire | | | No. of co | | (AWG/kcm | on (mm²) or i) | |
| composition of conductor Solid wire Solid wire | | Min. | No. of co | 1 | (AWG/kcm 0.75mm ² | on (mm²) or I) | Copper |
| composition of conductor Solid wire Solid wire Flexible wire | | Min. Min. | No. of co | 1 | (AWG/kcm 0.75mm ² 0.5mm ² | on (mm²) or i) | Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire | | Min. Min. Min. | No. of co | 1 2 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² | on (mm²) or i) | Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire | | Min. Min. Min. Max. | No. of co | 1 2 2 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 | on (mm²) or i) | Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire | | Min. Min. Min. Max. Max. | No. of co | 1 2 2 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire | | Min. Min. Max. Max. Max. Min. | No. of co | 1 2 2 1 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² | on (mm²) or 1) | Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire | | Min. Min. Max. Max. Min. Max. | No. of co | 1 2 1 1 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve | N 46228 | Min. Min. Max. Max. Min. Max. Max. | No. of co | 1 2 2 1 1 1 1 1 | (AWG/kcm. 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Elexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with ferrule according to DIM | | Min. Min. Max. Max. Min. Max. Max. Max. Max. | No. of co | 1 2 2 1 1 1 1 1 1 1 | (AWG/kcm. 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Enxible wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Max. Min. | No. of co | 1 2 2 1 1 1 1 1 1 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Enxible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | No. of co | 1 2 2 1 1 1 1 1 1 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Elexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | | 1 2 2 1 1 1 1 1 1 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or 1) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Size of conductor composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | ength (mm) | 1 2 2 1 1 1 1 1 1 1 1 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | ength (mm) - 9 | | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Elexible wire Elexible wire Elexible wire Elexible wire Elexible wire Single-core or stranded wire Single-core or stranded wire Elexible wire with sleeve Elexible wire with sleeve Elexible wire with ferrule according to DIN Elexible wire with ferrule according to DIN Stripping length Recommended screw driver Type of screw driver | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | ength (mm) – 9 – | 1 2 2 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or I) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
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| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | ength (mm) – 9 – | 1 2 2 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or i) | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 | | Min. Min. Max. Max. Max. Max. Max. Min. Min. L | ength (mm) – 9 – Valu PH2 0,8x | 1 2 2 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Solid wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Flexible wire Flexible wire Flexible wire with ferrule according to DIN Flexible wire Flexible wire Flexible wire Flexible wire Flexible wire with ferrule according to DIN Flexible wire Flexible w | | Min. Min. Max. Max. Min. Max. Max. Max. Max. Min. Min. | ength (mm) – 9 – Valu PH2 0,8x orque (Nm) | 1 2 2 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| somposition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length Recommended screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Flightening torque of screws | | Min. Min. Max. Max. Max. Max. Max. Min. Min. L | ength (mm) – 9 – Valu PH2 0,8x | 1 2 2 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| somposition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN 5264 Fliphening torque of screws General Information | | Min. Min. Max. Max. Max. Max. Max. Min. Min. L | ength (mm) – 9 – Valu PH2 0,8x orque (Nm) | 1 2 2 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Flightening torque of screws General Information Text | N 46228 | Min. Min. Max. Max. Max. Max. Max. Max. Min. Min. <i>L</i> | ength (mm) – 9 – 9 – 9 – 9 – 9 – 9 9 – 9 9 9 9 | 1 2 1 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm² 0.5mm² 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm² 0.5mm² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Flightening torque of screws General Information Text Use only copper wires with or without time | N 46228 | Min. Min. Max. Max. Max. Max. Max. Max. Min. Min. <i>L</i> <i>tightening</i> to the second s | ength (mm) – 9 – 9 – 9 – 9 – 9 – 9 9 – 9 9 9 9 | 1 2 1 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm² 0.5mm² 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm² 0.5mm² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with sleeve Flexible wire with sleeve Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Flexible wire with ferrule according to DIN Stripping length Recommended screw driver Type of screw driver Cross Screwdriver Slot screwdriver according to DIN 5264 Flightening torque of screws General Information Text | N 46228 | Min. Min. Max. Max. Max. Max. Max. Max. Min. Min. <i>L</i> <i>tightening</i> to the second s | ength (mm) – 9 – 9 – 9 – 9 – 9 – 9 9 – 9 9 9 9 | 1 2 1 1 1 1 1 1 1 1 2 | (AWG/kcm) 0.75mm² 0.5mm² 0.75mm² AWG 10 4mm² 1.5mm² 6mm² AWG 10 4mm² 0.75mm² 0.5mm² | on (mm²) or | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| composition of conductor Composition of conductor Colid wire Coli | N 46228 inned/silver-pse in environn | Min. Min. Max. Max. Max. Max. Max. Max. Min. Min. <i>L</i> <i>tightening</i> to <i>soluted</i> individual wires. Soldering ment A and B. | ength (mm) – 9 $-$ 9 $-$ Value PH2 0,8x orque (Nm) 1,25 the end of the wire | 1 2 1 1 1 1 1 1 1 1 1 2 2 4 4 | (AWG/kcm, 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² 0.75mm ² 0.5mm ² | | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper tightening torque (lb-i |
| omposition of conductor olid wire olid wire lexible wire lexible wire lexible wire lexible wire ingle-core or stranded wire ingle-core or stranded wire lexible wire with sleeve lexible wire with sleeve lexible wire with ferrule according to DIN tripping length ecommended screw driver tross Screw driver itoss Screw driver lot screwdriver according to DIN 5264 ightening torque of screws eneral Information ext Use only copper wires with or without tin EMC Note: This device is suitable for us Terminals with factory fitted jumper lin connections are properly seated. | inned/silver-p se in environr nks are tighte | Min. Min. Max. Max. Max. Max. Max. Max. Max. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Max. Min. | ength (mm) – 9 $-$ 9 $-$ Value PH2 0,8x orque (Nm) 1,25 the end of the wire | 1 2 1 1 1 1 1 1 1 1 1 2 2 4 4 | (AWG/kcm, 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² 0.75mm ² 0.5mm ² | | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper tightening torque (lb-1 |
| omposition of conductor olid wire olid wire lexible wire lexible wire lexible wire ingle-core or stranded wire lexible wire with sleeve lexible wire with sleeve lexible wire with ferrule according to DIN lexible wire with ferrule according to DIN tripping length recommended screw driver screwdriver lot screwdriver according to DIN 5264 ightening torque of screws ceneral Information ext Use only copper wires with or without tim EMC Note: This device is suitable for us | inned/silver-p se in environr nks are tighte | Min. Min. Max. Max. Max. Max. Max. Max. Max. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Min. Max. Min. | ength (mm) – 9 $-$ 9 $-$ Value PH2 0,8x orque (Nm) 1,25 the end of the wire | 1 2 1 1 1 1 1 1 1 1 1 2 2 4 4 | (AWG/kcm, 0.75mm ² 0.5mm ² 0.75mm ² AWG 10 4mm ² 1.5mm ² 6mm ² AWG 10 4mm ² 0.75mm ² 0.75mm ² 0.5mm ² | | Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper tightening torque (lb- |

 Waste Electroical & Electronic Equipment (WEEE)

 Picture name
 Description

 Do not throw in the trash as care must be taken to ensure environmentally sound disposal and recycling. Please either use an environmentally friendly waste disposal company; return to the supplier for disposal; or return direct to the manufacturer, Kraus & Naimer. You can find local Kraus & Naimer offices at www.krausnaimer.com



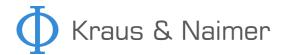
Proposition 65 Picture name

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

Classification Contact: Rigid contact bridge Classification Contact Mat: Silver Classification Terminal: Screw terminal

Description



Datasheet

Wiring diagram KG20.T306.VE

1L1 1L2 1L3 2L1 2L2 2L3

 $\left\langle \right\rangle$ $\left\langle \right\rangle$ $\langle \rangle$ \langle 1T1 1T2 1T3 2T1 2T2 2T3



M510A-1

K0.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 | | | 40 40 (20 | | |
|--|--|-----------|--|---|--|
| | | Voltage | ., | | |
| | | | 500 AC 590 AC | | |
| Rated uninterrupted current lu/Ith | | 0 | 190 AC | | |
| Current (A) Ambient temperature | (°C) Peak temperatu | | additional requirements | | |
| 10 | 55 | 60 | Ambient temperature +55°C du | ring 24 hours with neaks up to | +60°C |
| 16 | 55 | 60 | Ambient temperature +55°C du | • • • | |
| Rated operational current le | | 00 | | | |
| Utilization category | | | Voltage | e (V) | Current |
| AC-15 | | | 110 - | 240 | 2 |
| AC-15 | | | 380 - | 440 | 1 |
| AC-15 | | | | 500 | |
| AC-21A | | | | 500 | |
| UL60947-4-1 , UL508 | | | | | |
| Vominal Voltage | | | | | |
| | | Voltage | (V) AC/DC | | |
| | | | 600 AC | | |
| Rated insulation voltage Ui | | | | | |
| | | Voltage | (V) AC/DC | | |
| | | 6 | 600 AC | | |
| Rated thermal current | | _ | | | |
| | Current (A) | | Ambient temperature | (°C) Additional Text | |
| Duty Code A600 | 10 | | 0 | - 40 - | |
| Duty Code A600 General Use AC / DC Voltage (V) Current (A) | No. of phases | | No. of poles | - 40 | No. of contacts in ser |
| Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 | _ | | _ | - 40 - | No. of contacts in ser |
| Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION | No. of phases | | No. of poles | - 40 | No. of contacts in ser |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor | No. of phases | | No. of poles | Cross section (mm²) or | No. of contacts in ser Material of the wire |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor | No. of phases 1 Min. / Max. value | | No. of poles 1 No. of conductor per terminal | Cross section (mm²) or (AWG/kcmil) | Material of the wire |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Solid wire | No. of phases 1 Min. / Max. value Min. | | No. of poles 1 No. of conductor per terminal 1 | Cross section (mm²) or (AWG/kcmil) 0.5mm² | Material of the wire Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Solid wire Solid wire | No. of phases 1 <i>Min. / Max. value</i> Min. Min. | | No. of poles 1 No. of conductor per terminal 1 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² | <i>Material of the wire</i> Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor composition of conductor Solid wire Solid wire Flexible wire | No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² | <i>Material of the wire</i> Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire Flexible wire Flexible wire | No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² | <i>Material of the wire</i> Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 SENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire | No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Min. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 | <i>Material of the wire</i> Copper Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 SENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire So | No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² | <i>Material of the wire</i> Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Size of conductor Solid wire Solid wire Solid wire Solid wire Solid wire Solid wire Stable wire Solid wire Solid wire Solid wire Solid w | No. of phases 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Min. Max. Max. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² | <i>Material of the wire</i> Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 SENERAL TECHNICAL INFORMATION Size of conductor Size of conductor somposition of conductor Solid wire Solid wire Solid wire Solid wire Solid wire Stexible wire Solid wire Solid wire Solid wire | No. of phases 1 Min. / Max. value Min. Min. Min. Min. Min. Max. Max. Max. Max. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 Seneral Use 600 10 Seneral Use 600 10 Seneral Use 50 50 Solid wire 50 50 Selid wire 50 50 Sing | No. of phases 1 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Max. Max. Max. Max. Max. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 Seneral Use 600 10 Seneral Use 600 10 Seneral Use Seneral Use 10 Sen | No. of phases 1 1 <i>Min. / Max. value</i> Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 1 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Composition of conductor Solid wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228 | No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Max. Max. Max. Max | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 2 2 2 1 2 2 2 1 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Size of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Single-core or stranded wire Single-core or stranded wire Flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 | No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min. | .ength (m | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 General Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Solid wire Soli | No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| Duty Code A600 Seneral Use AC / DC Voltage (V) Current (A) AC 600 10 GENERAL TECHNICAL INFORMATION Size of conductor Solid wire Solid wire Flexible wire Flexible wire Flexible wire Flexible wire Flexible wire Flexible wire Single-core or stranded wire Flexible wire th ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire flexible wire with ferrule according to DIN 46228 Flexible wire with ferrule according to DIN 46228 Flexible wire with flexible wire flexible wire wire flexible wire with flexible wire wire flexible wire | No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 1 2 2 2 1 2 2 2 2 1 2 2 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |
| , . , , , , , , , , , , , , , , , , | No. of phases 1 Min. / Max. value Min. Min. Min. Min. Max. Max. Max. Max. Min. Max. Min. | | No. of poles 1 No. of conductor per terminal 1 2 1 2 2 2 2 1 2 2 1 2 2 1 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 | Cross section (mm²) or (AWG/kcmil) 0.5mm² 0.5mm² 0.75mm² 0.75mm² AWG 16 1.5mm² AWG 14 1.5mm² 0.5mm² 0.5mm² 1.5mm² | Material of the wire Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper Copper |



| Recommended screw driver | | |
|--|------------------------|---------------------------|
| Type of screw driver | Value | |
| Slot screwdriver according to DIN 5264 | 0,6x3,5 | |
| Tightening torque of screws | | |
| | tightening torque (Nm) | tightening torque (lb-in) |
| | 0,60 | 5 |
| General Information | | |
| | | |

Text

- Use only copper wires with or without tinned/silver-plated individual wires. Soldering the end of the wire before wiring is not allowed.

- Terminals with factory fitted jumper links are tightened during production for loss prevention. When opening the terminal clamps, make sure that no factory fitted links get lost and that all wire connections are properly seated.

- After wiring, ALL terminal screws must be tightened to the specified torque values.

- 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.

| M510A-1 | AUXILIARY CONTACTS (cam operated) for switch type KG20 - KG100C and KH(R)16 - KH(R) |)25B |
|---------|---|------|
| K0 M510 | 2CA-B | |

| 13 | 21 | |
|----|----|--|
| h' | 7 | |
| 14 | 22 | |