



Sample image

## Datasheet

**Article number:** 70017913

**Designation:** KG20A.T304.FT2

**Description:** Switch Local Disconnecter

|                                                                                                                                                              |                          |                          |                                                                |                 |                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|----------------------------------------------------------------|-----------------|---------------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                    |                          |                          |                                                                |                 |                           |
| Tension assignée d'isolement Ui                                                                                                                              |                          |                          |                                                                |                 |                           |
| Tension (V) AC / DC                                                                                                                                          |                          |                          |                                                                |                 |                           |
| 690 AC                                                                                                                                                       |                          |                          |                                                                |                 |                           |
| Courant Ininterrompu et thermique conventionnel Iu/Ith                                                                                                       |                          |                          |                                                                |                 |                           |
| Intensité (A)                                                                                                                                                | Température Ambiante (*) | Température Maxi (*)     | Spécification complémentaire                                   |                 |                           |
| 25                                                                                                                                                           | 50                       | 55                       | Température ambiante +50°C durant 24 heures avec point à +55°C |                 |                           |
| Courant assigné d'emploi Ie                                                                                                                                  |                          |                          |                                                                |                 |                           |
| Catégorie d'emploi                                                                                                                                           |                          | Tension (V)              |                                                                | Intensité (A)   |                           |
| AC-32A                                                                                                                                                       |                          | 20 - 400                 |                                                                | 20              |                           |
| Puissance assignée d'emploi                                                                                                                                  |                          |                          |                                                                |                 |                           |
| Catégorie d'emploi                                                                                                                                           | Tension (V)              | Nb de phases             | Nb de pôles                                                    | Puissance (kW)  |                           |
| AC-3                                                                                                                                                         | 220 - 240                | 3                        | 3                                                              | 4               |                           |
| AC-3                                                                                                                                                         | 380 - 440                | 3                        | 3                                                              | 5,50            |                           |
| AC-3                                                                                                                                                         | 660 - 690                | 3                        | 3                                                              | 5,50            |                           |
| AC-23A                                                                                                                                                       | 220 - 240                | 3                        | 3                                                              | 5,50            |                           |
| AC-23A                                                                                                                                                       | 380 - 440                | 3                        | 3                                                              | 7,50            |                           |
| AC-23A                                                                                                                                                       | 660 - 690                | 3                        | 3                                                              | 7,50            |                           |
| Protection par fusible (IEC)                                                                                                                                 |                          |                          |                                                                |                 |                           |
| Caractéri                                                                                                                                                    |                          |                          | Nombre de fusible                                              |                 | Intensité (A)             |
| gG                                                                                                                                                           |                          |                          | 1                                                              |                 | 35                        |
| UL60947-4-1 , UL508                                                                                                                                          |                          |                          |                                                                |                 |                           |
| Nominal Voltage                                                                                                                                              |                          |                          |                                                                |                 |                           |
| Tension (V) AC / DC                                                                                                                                          |                          |                          |                                                                |                 |                           |
| 600 AC                                                                                                                                                       |                          |                          |                                                                |                 |                           |
| Tension assignée d'isolement Ui                                                                                                                              |                          |                          |                                                                |                 |                           |
| Tension (V) AC / DC                                                                                                                                          |                          |                          |                                                                |                 |                           |
| 600 AC                                                                                                                                                       |                          |                          |                                                                |                 |                           |
| Rated thermal current                                                                                                                                        |                          |                          |                                                                |                 |                           |
| Intensité (A)                                                                                                                                                |                          | Température Ambiante (*) |                                                                | Additional Text |                           |
| 25                                                                                                                                                           |                          | 0 - 40                   |                                                                | --              |                           |
| Horsepower rating                                                                                                                                            |                          |                          |                                                                |                 |                           |
| Across-the-Line Motor Starting                                                                                                                               | Tension (V)              | Nb de phases             | Nb de pôles                                                    | Power (HP)      | Ambient temperature [°C]  |
| DOL                                                                                                                                                          | 110 - 120                | 1                        | 2                                                              | 1               | 40                        |
| DOL                                                                                                                                                          | 220 - 240                | 1                        | 2                                                              | 3               | 40                        |
| DOL                                                                                                                                                          | 277 - 277                | 1                        | 2                                                              | 3               | 40                        |
| DOL                                                                                                                                                          | 415 - 415                | 1                        | 2                                                              | 5               | 40                        |
| DOL                                                                                                                                                          | 440 - 480                | 1                        | 2                                                              | 5               | 40                        |
| DOL                                                                                                                                                          | 550 - 600                | 1                        | 2                                                              | 5               | 40                        |
| DOL                                                                                                                                                          | 110 - 120                | 3                        | 3                                                              | 2               | 40                        |
| DOL                                                                                                                                                          | 200 - 240                | 3                        | 3                                                              | 7,50            | 40                        |
| DOL                                                                                                                                                          | 415 - 415                | 3                        | 3                                                              | 10              | 40                        |
| DOL                                                                                                                                                          | 440 - 480                | 3                        | 3                                                              | 15              | 40                        |
| DOL                                                                                                                                                          | 550 - 600                | 3                        | 3                                                              | 20              | 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 at 600V max., when protected by 40A Class J fuses.           |                          |                          |                                                                |                 |                           |
| Temp. rating of wire                                                                                                                                         |                          |                          |                                                                |                 |                           |
| Temperature rating (°C)                                                                                                                                      |                          |                          | Intensité (A) Text                                             |                 |                           |
| 60 - 75                                                                                                                                                      |                          |                          | -- --                                                          |                 |                           |
| General Use                                                                                                                                                  |                          |                          |                                                                |                 |                           |
| AC / DC                                                                                                                                                      | Tension (V)              | Intensité (A)            | Nb de phases                                                   | Nb de pôles     | No. of contacts in series |
| AC                                                                                                                                                           | 277                      | 25                       | 1                                                              | 1               | 1                         |
| AC                                                                                                                                                           | 600                      | 25                       | 1                                                              | 2               | 1                         |

| General Use                                                                                                                                                                                                                                                                                            |             |                   |                               |                        |                                    |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|-------------------------------|------------------------|------------------------------------|---------------------------------------------------------------------------------------|
| AC / DC                                                                                                                                                                                                                                                                                                | Tension (V) | Intensité (A)     | Nb de phases                  | Nb de pôles            | No. of contacts in series          |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 25                | 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                                                                                                                                                                                                                                                                                        |             |                   |                               |                        |                                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | Tension (V)            | AC / DC                            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | 600                    | AC                                 |                                                                                       |
| Tension assignée d'isolement Ui                                                                                                                                                                                                                                                                        |             |                   |                               |                        |                                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | Tension (V)            | AC / DC                            |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | 600                    | AC                                 |                                                                                       |
| Rated thermal current                                                                                                                                                                                                                                                                                  |             |                   |                               |                        |                                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             | Intensité (A)     | Température Ambiante (°)      |                        | Additional Text                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             | 25                | 0 - 40                        |                        | --                                 |                                                                                       |
| Horsepower rating                                                                                                                                                                                                                                                                                      |             |                   |                               |                        |                                    |                                                                                       |
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                         |             |                   |                               | Tension (V)            | Nb de phases                       | Nb de pôles                                                                           |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | 110 - 120              | 1                                  | 2                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 220 - 240              | 1                                  | 2                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 277 - 277              | 1                                  | 2                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 415 - 415              | 1                                  | 2                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 440 - 480              | 1                                  | 2                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 550 - 600              | 1                                  | 2                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 110 - 120              | 3                                  | 3                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 220 - 240              | 3                                  | 3                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 415 - 415              | 3                                  | 3                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 440 - 480              | 3                                  | 3                                                                                     |
| DOL                                                                                                                                                                                                                                                                                                    |             |                   |                               | 550 - 600              | 3                                  | 3                                                                                     |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               |                        |                                    |                                                                                       |
| Pilot duty rating code                                                                                                                                                                                                                                                                                 |             |                   |                               |                        |                                    |                                                                                       |
| Duty Code                                                                                                                                                                                                                                                                                              |             |                   |                               |                        |                                    |                                                                                       |
| A600                                                                                                                                                                                                                                                                                                   |             |                   |                               |                        |                                    |                                                                                       |
| Temp. rating of wire                                                                                                                                                                                                                                                                                   |             |                   |                               |                        |                                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   | Temperature rating (°C)       | Intensité (A)          |                                    | Text                                                                                  |
|                                                                                                                                                                                                                                                                                                        |             |                   | 75                            | --                     |                                    | --                                                                                    |
| General Use                                                                                                                                                                                                                                                                                            |             |                   |                               |                        |                                    |                                                                                       |
| AC / DC                                                                                                                                                                                                                                                                                                | Tension (V) | Intensité (A)     | Nb de phases                  | Nb de pôles            | No. of contacts in series          |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 277         | 25                | 1                             | 1                      | 1                                  |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 25                | 1                             | 2                      | 1                                  |                                                                                       |
| AC                                                                                                                                                                                                                                                                                                     | 600         | 25                | 3                             | 3                      | 1                                  |                                                                                       |
| GENERAL TECHNICAL INFORMATION                                                                                                                                                                                                                                                                          |             |                   |                               |                        |                                    |                                                                                       |
| Tightening torque of screws                                                                                                                                                                                                                                                                            |             |                   |                               |                        |                                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | tightening torque (Nm) | tightening torque (lb-in)          |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | 1,25                   | 11                                 |                                                                                       |
| Stripping length                                                                                                                                                                                                                                                                                       |             |                   |                               |                        |                                    |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | Length (mm)            | --                                 |                                                                                       |
|                                                                                                                                                                                                                                                                                                        |             |                   |                               | 9                      | STRIPPINGLENGTH                    |                                                                                       |
| Size of conductor                                                                                                                                                                                                                                                                                      |             |                   |                               |                        |                                    |                                                                                       |
| composition of conductor                                                                                                                                                                                                                                                                               |             | Min. / Max. value | No. of conductor per terminal |                        | Cross section (mm²) or (AWG/kcmil) |                                                                                       |
| flexible wire                                                                                                                                                                                                                                                                                          |             | Max.              | 1                             |                        | AWG 10                             |                                                                                       |
| flexible wire                                                                                                                                                                                                                                                                                          |             | Max.              | 1                             |                        | 4mm²                               |                                                                                       |
| Single-core or stranded wire                                                                                                                                                                                                                                                                           |             | Max.              | 1                             |                        | 6mm²                               |                                                                                       |
| Single-core or stranded wire                                                                                                                                                                                                                                                                           |             | Max.              | 1                             |                        | AWG 10                             |                                                                                       |
| flexible wire with sleeve                                                                                                                                                                                                                                                                              |             | Max.              | 1                             |                        | 4mm²                               |                                                                                       |
| Approbations                                                                                                                                                                                                                                                                                           |             |                   |                               |                        |                                    |                                                                                       |
| Specification                                                                                                                                                                                                                                                                                          |             |                   |                               |                        |                                    | Marking                                                                               |
| EAC                                                                                                                                                                                                                                                                                                    |             |                   |                               |                        |                                    |  |
| CE marking                                                                                                                                                                                                                                                                                             |             |                   |                               |                        |                                    |  |
| UK Directives                                                                                                                                                                                                                                                                                          |             |                   |                               |                        |                                    |  |
| CSA C.22.2 No.14                                                                                                                                                                                                                                                                                       |             |                   |                               |                        |                                    |  |
| GB/T14048.3                                                                                                                                                                                                                                                                                            |             |                   |                               |                        |                                    |  |
| Recommandations concernant le tournevis                                                                                                                                                                                                                                                                |             |                   |                               |                        |                                    |                                                                                       |
| Type                                                                                                                                                                                                                                                                                                   |             |                   |                               | Value                  |                                    |                                                                                       |
| Tournevis cruciforme                                                                                                                                                                                                                                                                                   |             |                   |                               | PH2                    |                                    |                                                                                       |
| Slot screwdriver according to DIN 5264                                                                                                                                                                                                                                                                 |             |                   |                               | 0,8x4                  |                                    |                                                                                       |
| General Information                                                                                                                                                                                                                                                                                    |             |                   |                               |                        |                                    |                                                                                       |
| Text                                                                                                                                                                                                                                                                                                   |             |                   |                               |                        |                                    |                                                                                       |
| - EMC Note: This device is suitable for use in environment A and B.                                                                                                                                                                                                                                    |             |                   |                               |                        |                                    |                                                                                       |

## General Information

### Text

- Ne jamais lubrifier ou traiter les contacts.
- Les commutateurs ne peuvent être montés, branchés et mis en service que par une personne qualifiée selon les règles techniques en vigueur.
- Use copper wire only. Do not coat the wire end with tin.
- Les bornes qui ne sont pas supposées être utilisées pour le raccordement de l'appareil sont livrées serrées et ne doivent pas être desserrées. Si toutefois ces bornes sont malgré tout ouvertes accidentellement, vérifier qu'aucun shunt n'est manquant. Le câblage terminé, s'assurer que toutes les bornes sont serrées.

### 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

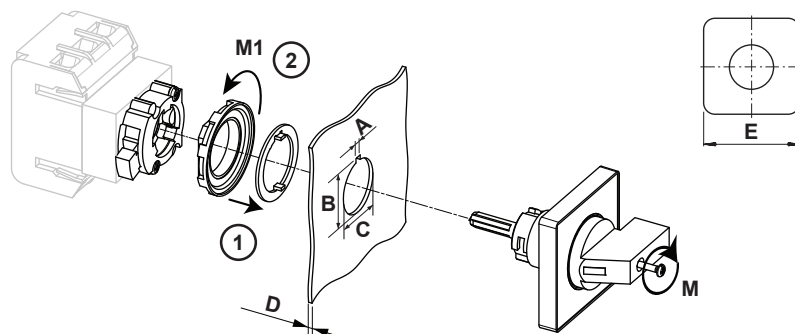
| Picture name                                                                     | Description                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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> . |

Type de contacts: Rigid contact bridge

Revêtement des Contacts: Silver

Types de raccordement: Screw terminal

## Fixation-FT2



|                      |   |                   |
|----------------------|---|-------------------|
| IP - Code front side |   | IP66, IP67, IP69k |
| Stages               |   | 1,00 - 5,00       |
| A                    | H | 3,20 mm           |
| A+_tol.              | H | 0,20 mm           |
| A-_tol.              | H | 0,00 mm           |
| B                    | H | 24,10 mm          |
| B+_tol.              | H | 0,40 mm           |
| B-_tol.              | H | 0,00 mm           |
| C                    | Ø | 22,30 mm          |
| C+_tol.              | Ø | 0,40 mm           |
| C-_tol.              | Ø | 0,00 mm           |
| D                    | H | <= 6,00 mm        |
| E                    | □ | 48,00 mm          |
| M                    | ↺ | 0,50 Nm           |
| M1                   | ↺ | 1,80 Nm           |



Wiring diagram

KG20A.T304.FT2



## Switch program

KG20A.T304.FT2



Kraus & Naimer

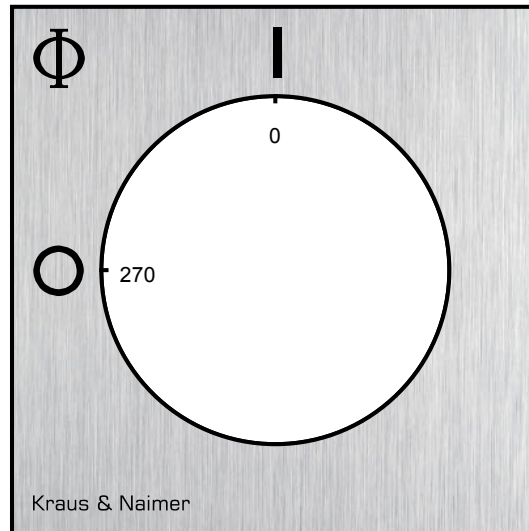
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**T304**
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| Face Plate                                                                                                                                                             |     |    |    |    |   |    |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|----|---|----|----|----|----|
|                                                                                       |     | 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

S0.F456/A10.E1L



## HANDLES

**Designation:** S0C.G251

**Handle colour:** "1" black

