

Sample image

## Datasheet

**Article number:** 70025899

**Designation:** CH10.A320.FT2

**Description:** Switch

|                                                                                                                                                                 |                          |                                          |                                                                |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|----------------------------------------------------------------|----------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                       |                          |                                          |                                                                |                |
| Tension assignée d'isolement Ui                                                                                                                                 |                          |                                          |                                                                |                |
| Tension (V) AC / DC                                                                                                                                             |                          |                                          |                                                                |                |
| 690 AC / DC                                                                                                                                                     |                          |                                          |                                                                |                |
| Courant Ininterrompu et thermique conventionnel Iu/Ith                                                                                                          |                          |                                          |                                                                |                |
| Intensité (A)                                                                                                                                                   | Température Ambiante (*) | Température Maxi (*)                     | Spécification complémentaire                                   |                |
| 20                                                                                                                                                              | 55                       | 60                                       | Température ambiante +55°C durant 24 heures avec point à +60°C |                |
| Courant assigné d'emploi Ie                                                                                                                                     |                          |                                          |                                                                |                |
| Catégorie d'emploi                                                                                                                                              |                          | Tension (V)                              |                                                                | Intensité (A)  |
| AC-15                                                                                                                                                           |                          | 220 - 240                                |                                                                | 6              |
| AC-15                                                                                                                                                           |                          | 380 - 440                                |                                                                | 4              |
| Puissance assignée d'emploi                                                                                                                                     |                          |                                          |                                                                |                |
| Catégorie d'emploi                                                                                                                                              | Tension (V)              | Nb de phases                             | Nb de pôles                                                    | Puissance (kW) |
| AC-3                                                                                                                                                            | 220 - 240                | 3                                        | 3                                                              | 3              |
| AC-3                                                                                                                                                            | 380 - 440                | 3                                        | 3                                                              | 5,50           |
| AC-3                                                                                                                                                            | 660 - 690                | 3                                        | 3                                                              | 5,50           |
| AC-3                                                                                                                                                            | 220 - 240                | 1                                        | 2                                                              | 2,20           |
| AC-3                                                                                                                                                            | 380 - 440                | 1                                        | 2                                                              | 3              |
| AC-23A                                                                                                                                                          | 220 - 240                | 3                                        | 3                                                              | 3,70           |
| AC-23A                                                                                                                                                          | 380 - 440                | 3                                        | 3                                                              | 7,50           |
| AC-23A                                                                                                                                                          | 660 - 690                | 3                                        | 3                                                              | 7,50           |
| AC-23A                                                                                                                                                          | 220 - 240                | 1                                        | 2                                                              | 2,50           |
| AC-23A                                                                                                                                                          | 380 - 440                | 1                                        | 2                                                              | 3,70           |
| Protection par fusible (IEC)                                                                                                                                    |                          |                                          |                                                                |                |
| Caractéri                                                                                                                                                       |                          |                                          | Nombre de fusible                                              | Intensité (A)  |
| gG                                                                                                                                                              |                          |                                          | 1                                                              | 25             |
| 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 |                                                                |                |
| 20                                                                                                                                                              |                          | 0 - 40 --                                |                                                                |                |
| Horsepower rating                                                                                                                                               |                          |                                          |                                                                |                |
| Across-the-Line Motor Starting                                                                                                                                  | Tension (V)              | Nb de phases                             | Nb de pôles                                                    | Power (HP)     |
| DOL                                                                                                                                                             | 110 - 120                | 1                                        | 2                                                              | 0,50           |
| DOL                                                                                                                                                             | 220 - 240                | 1                                        | 2                                                              | 1              |
| DOL                                                                                                                                                             | 277 - 277                | 1                                        | 2                                                              | 2              |
| DOL                                                                                                                                                             | 440 - 480                | 1                                        | 2                                                              | 2              |
| DOL                                                                                                                                                             | 550 - 600                | 1                                        | 2                                                              | 2              |
| DOL                                                                                                                                                             | 110 - 120                | 3                                        | 3                                                              | 1,50           |
| DOL                                                                                                                                                             | 220 - 240                | 3                                        | 3                                                              | 3              |
| DOL                                                                                                                                                             | 440 - 480                | 3                                        | 3                                                              | 5              |
| DOL                                                                                                                                                             | 550 - 600                | 3                                        | 3                                                              | 5              |
| Pilot duty rating code                                                                                                                                          |                          |                                          |                                                                |                |
| Duty Code                                                                                                                                                       |                          |                                          |                                                                |                |
| A600                                                                                                                                                            |                          |                                          |                                                                |                |
| SCCR / Max. fuse rating                                                                                                                                         |                          |                                          |                                                                |                |
| Conditions of acceptability                                                                                                                                     |                          |                                          |                                                                |                |
| These devices are suitable for use on circuits capable of delivering not more than 5kA rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. |                          |                                          |                                                                |                |
| Temp. rating of wire                                                                                                                                            |                          |                                          |                                                                |                |
| Temperature rating (°C)                                                                                                                                         |                          | Intensité (A) Text                       |                                                                |                |
| 60 - 75                                                                                                                                                         |                          | -- Use copper wire only                  |                                                                |                |
| General Use                                                                                                                                                     |                          |                                          |                                                                |                |
| AC / DC                                                                                                                                                         | Tension (V)              | Intensité (A)                            | Nb de phases                                                   | Nb de pôles    |
| AC                                                                                                                                                              | 277                      | 20                                       | 1                                                              | 1              |
| AC                                                                                                                                                              | 600                      | 20                                       | 1                                                              | 2              |
| No. of contacts in series                                                                                                                                       |                          |                                          |                                                                |                |
| 1                                                                                                                                                               |                          |                                          |                                                                |                |

| General Use                                       |             |                   |                               |               |                                    |             |                      |                          |
|---------------------------------------------------|-------------|-------------------|-------------------------------|---------------|------------------------------------|-------------|----------------------|--------------------------|
| AC / DC                                           | Tension (V) | Intensité (A)     | Nb de phases                  | Nb de pôles   | No. of contacts in series          |             |                      |                          |
| AC                                                | 600         | 20                | 3                             | 3             | 1                                  |             |                      |                          |
| 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                    |             |                      |                          |
|                                                   |             | 20                | 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           | 0,50                 | 40                       |
| DOL                                               |             |                   |                               | 220 - 240     | 1                                  | 2           | 1                    | 40                       |
| DOL                                               |             |                   |                               | 277 - 277     | 1                                  | 2           | 2                    | 40                       |
| DOL                                               |             |                   |                               | 440 - 480     | 1                                  | 2           | 2                    | 40                       |
| DOL                                               |             |                   |                               | 550 - 600     | 1                                  | 2           | 2                    | 40                       |
| DOL                                               |             |                   |                               | 110 - 120     | 3                                  | 3           | 1,50                 | 40                       |
| DOL                                               |             |                   |                               | 220 - 240     | 3                                  | 3           | 3                    | 40                       |
| DOL                                               |             |                   |                               | 440 - 480     | 3                                  | 3           | 5                    | 40                       |
| DOL                                               |             |                   |                               | 550 - 600     | 3                                  | 3           | 5                    | 40                       |
| 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         | 20                | 1                             | 1             | 1                                  |             |                      |                          |
| AC                                                | 600         | 20                | 1                             | 2             | 1                                  |             |                      |                          |
| AC                                                | 600         | 20                | 3                             | 3             | 1                                  |             |                      |                          |
| GENERAL TECHNICAL INFORMATION                     |             |                   |                               |               |                                    |             |                      |                          |
| Tightening torque of screws                       |             |                   |                               |               |                                    |             |                      |                          |
|                                                   |             |                   | tightening torque (Nm)        |               | tightening torque (lb-in)          |             |                      |                          |
|                                                   |             |                   | 1                             |               | 9                                  |             |                      |                          |
| 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) |             | Material of the wire |                          |
| solid wire                                        |             | Min.              | 1                             |               | 0,75mm²                            |             | Copper               |                          |
| solid wire                                        |             | Min.              | 2                             |               | 0,75mm²                            |             | Copper               |                          |
| flexible wire                                     |             | Min.              | 1                             |               | 0,75mm²                            |             | Copper               |                          |
| flexible wire                                     |             | Min.              | 2                             |               | 0,75mm²                            |             | Copper               |                          |
| flexible wire                                     |             | Max.              | 2                             |               | AWG 12                             |             | Copper               |                          |
| flexible wire                                     |             | Max.              | 2                             |               | 2,5mm²                             |             | Copper               |                          |
| Single-core or stranded wire                      |             | Max.              | 2                             |               | AWG 10                             |             | Copper               |                          |
| Single-core or stranded wire                      |             | Max.              | 2                             |               | 4mm²                               |             | Copper               |                          |
| flexible wire with ferrule according to DIN 46228 |             | Min.              | 1                             |               | 0,75mm²                            |             | Copper               |                          |
| flexible wire with ferrule according to DIN 46228 |             | Min.              | 2                             |               | 0,75mm²                            |             | Copper               |                          |
| flexible wire with ferrule according to DIN 46228 |             | Max.              | 2                             |               | 2,5mm²                             |             | Copper               |                          |
| 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                              |             |                   | PH1                           |               |                                    |             |                      |                          |
| Slot screwdriver according to DIN 5264            |             |                   | 0,8x4                         |               |                                    |             |                      |                          |
| General Information                               |             |                   |                               |               |                                    |             |                      |                          |
| Text                                              |             |                   |                               |               |                                    |             |                      |                          |
| - Ne jamais lubrifier ou traiter les contacts.    |             |                   |                               |               |                                    |             |                      |                          |

## General Information

### Text

- 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.
- Après mise en place des les commutateurs l'espace entre bornes doit être suffisant pour répondre aux exigences des normes en vigueur.

## 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

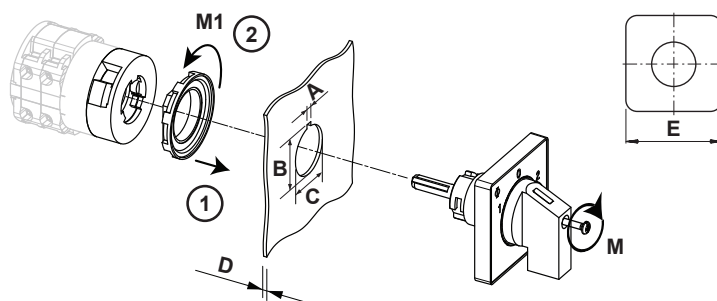
| Picture name                                                                     | Description                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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

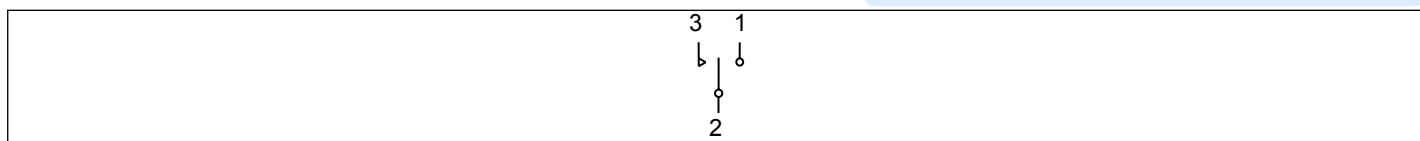
## Fixation-FT2



|                      |    |                   |
|----------------------|----|-------------------|
| IP - Code front side |    | IP66, IP67, IP69k |
| Stages               |    | 1,00 - 12,00      |
| 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                    | M̄ | 0,50 Nm           |
| M1                   | M̄ | 1,80 Nm           |

## Wiring diagram

CH10.A320.FT2



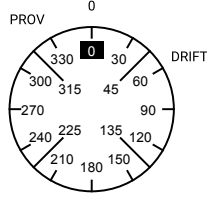
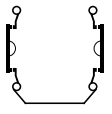
## Switch program

CH10.A320.FT2



Kraus & Naimer

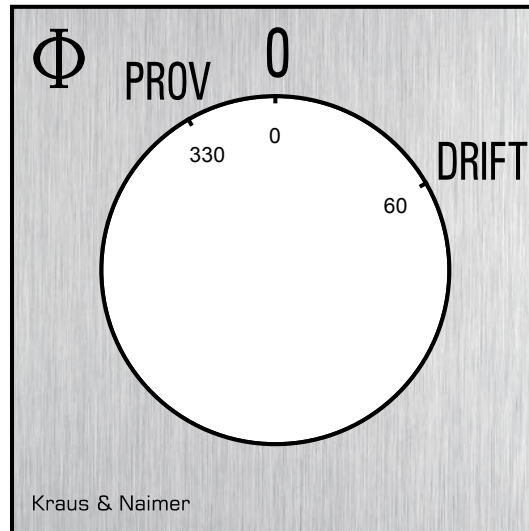
CH10
A320
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| Face Plate                                                                                                                                                             |       |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|---|---|---|----|----|----|----|----|----|----|----|
| <div style="text-align: center;">  </div>                                             |       |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       |  |   |   |   |    |    |    |    |    |    |    |    |
| Switching Angle <span style="border: 1px solid black; padding: 2px;">60</span><br>Total switching Angle <span style="border: 1px solid black; padding: 2px;">84</span> |       | 1                                                                                 | 3 | 5 | 7 | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
|                                                                                                                                                                        |       | 2                                                                                 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|                                                                                       | PROV  | 330                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 345                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 0     | 0                                                                                 |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 15                                                                                |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 30                                                                                |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 45                                                                                |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | DRIFT | 60                                                                                |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 75                                                                                |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 90                                                                                |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 105                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 120                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 135                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 150                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 165                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 180                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        |       | 195                                                                               |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 210   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 225   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 240   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 255   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 270   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 285   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 300   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                                                                                                        | 315   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |

Version: 80

## Face plate

S0.F261/A10.E1L



## HANDLES

**Designation:** S0C.G251

**Handle colour:** "1" black

