



Sample image






## Datasheet

**Article number:** 70002849

**Designation:** CA10.A250.FT2

**Description:** Switch

| <b>IEC 60947-3 EN 60947-3, VDE 0660 Teil 107</b>   |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
| <b>Tension assignée d'isolement Ui</b>   |  |  |  |  |  |  |
| <i>Tension (V) AC / DC</i>   |  |  |  |  |  |  |
| 690 AC / DC  |  |  |  |  |  |  |
| <b>Tension assignée de tenue aux chocs Uimp</b>  |  |  |  |  |  |  |
| <i>Tension (kV) Classe de protection surcharges Degré de pollution Type d'alimentation Fonction</i>  |  |  |  |  |  |  |
| 4 III 3 Valable pour un réseau triphasé avec le neutre à la terre Switch disconnector  |  |  |  |  |  |  |
| <b>Courant ininterrompu et thermique conventionnel Iu/Ith</b>  |  |  |  |  |  |  |
| <i>Intensité (A) Température Ambiante (°) Température Maxi (°) Spécification complémentaire</i>  |  |  |  |  |  |  |
| 20 55 60 Température ambiante +55°C durant 24 heures avec point à +60°C  |  |  |  |  |  |  |
| <b>Courant assigné d'emploi Ie</b>   |  |  |  |  |  |  |
| <i>Catégorie d'emploi Tension (V) Intensité (A)</i>  |  |  |  |  |  |  |
| AC-15 220 - 240 6  |  |  |  |  |  |  |
| AC-15 380 - 440 4  |  |  |  |  |  |  |
| <b>Puissance assignée d'emploi</b>   |  |  |  |  |  |  |
| <i>Catégorie d'emploi Tension (V) Nb de phases Nb de pôles Puissance (kW)</i>  |  |  |  |  |  |  |
| 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  |  |  |  |  |  |  |
| <b>Protection par fusible (IEC)</b>  |  |  |  |  |  |  |
| <i>Caractéri Nombre de fusible Intensité (A)</i>   |  |  |  |  |  |  |
| gG 1 25  |  |  |  |  |  |  |
| <b>UL60947-4-1 , UL508</b>   |  |  |  |  |  |  |
| <b>Nominal Voltage</b>   |  |  |  |  |  |  |
| <i>Tension (V) AC / DC</i>   |  |  |  |  |  |  |
| 300 AC / DC  |  |  |  |  |  |  |
| <b>Tension assignée d'isolement Ui</b>   |  |  |  |  |  |  |
| <i>Tension (V) AC / DC</i>   |  |  |  |  |  |  |
| 300 AC   |  |  |  |  |  |  |
| <b>Rated thermal current</b>   |  |  |  |  |  |  |
| <i>Intensité (A) Température Ambiante (°) Additional Text</i>  |  |  |  |  |  |  |
| 20 0 - 40 --   |  |  |  |  |  |  |
| <b>Horsepower rating</b>   |  |  |  |  |  |  |
| <i>Across-the-Line Motor Starting Tension (V) Nb de phases Nb de pôles Power (HP) Ambient temperature [°C]</i>   |  |  |  |  |  |  |
| Reversing 110 - 120 1 2 0,17 40  |  |  |  |  |  |  |
| Reversing 220 - 240 1 2 0,50 40  |  |  |  |  |  |  |
| Reversing 277 - 277 1 2 0,60 40  |  |  |  |  |  |  |
| Reversing 110 - 120 3 3 0,50 40  |  |  |  |  |  |  |
| Reversing 220 - 240 3 3 1 40   |  |  |  |  |  |  |
| DOL 110 - 120 1 2 0,50 40  |  |  |  |  |  |  |
| DOL 220 - 240 1 2 1 40   |  |  |  |  |  |  |
| DOL 277 - 277 1 2 2 40   |  |  |  |  |  |  |
| DOL 110 - 120 3 3 1,50 40  |  |  |  |  |  |  |
| DOL 220 - 240 3 3 3 40   |  |  |  |  |  |  |
| <b>Pilot duty rating code</b>  |  |  |  |  |  |  |
| <i>Duty Code</i>   |  |  |  |  |  |  |
| A300   |  |  |  |  |  |  |
| <b>SCCR / Max. fuse rating</b>   |  |  |  |  |  |  |
| <i>Conditions of acceptability</i>   |  |  |  |  |  |  |
| These devices are suitable for use on circuits capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. Manual Motor Controllers when intended for use as a motor disconnector are suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by 30A Class J time delay fuses. |  |  |  |  |  |  |
| <b>Temp. rating of wire</b>  |  |  |  |  |  |  |
| <i>Temperature rating (°C) Intensité (A) Text</i>  |  |  |  |  |  |  |
| 60 - 75 -- Use copper wire only  |  |  |  |  |  |  |

| Connecting instructions  |                   |                               |                          |   |                           |   |
|--|-------------------|-------------------------------|--------------------------|---|---------------------------|---|
| <b>Markings</b>  |                   |                               |                          |   |                           |   |
| When intended for use as a motor disconnecter the device shall be provided with a method of being locked in the OFF-position.                |                   |                               |                          |   |                           |   |
| <b>General Use</b>   |                   |                               |                          |   |                           |   |
| AC / DC  | Tension (V)       | Intensité (A)                 | Nb de phases             | Nb de pôles                                     | No. of contacts in series |   |
| AC   | 300               | 20                            | 1                        | 2   | 1                         |   |
| AC   | 300               | 20                            | 3                        | 3   | 1                         |   |
| <b>CSA</b>   |                   |                               |                          |   |                           |   |
| <b>Nominal Voltage</b>   |                   |                               |                          |   |                           |   |
|  |                   |                               |                          | Tension (V)                                     | AC / DC                   |   |
|  |                   |                               |                          | 300 AC  |                           |   |
| <b>Tension assignée d'isolement Ui</b>   |                   |                               |                          |   |                           |   |
|  |                   |                               |                          | Tension (V)                                     | AC / DC                   |   |
|  |                   |                               |                          | 300 AC  |                           |   |
| <b>Rated thermal current</b>   |                   |                               |                          |   |                           |   |
|  |                   | Intensité (A)                 | Température Ambiante (°) |   | Additional Text           |   |
|  |                   | 20                            | 0 - 40                   |   | -                         |   |
| <b>Horsepower rating</b>   |                   |                               |                          |   |                           |   |
| <i>Across-the-Line Motor Starting</i>  |                   |                               |                          |   |                           |   |
|  | 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  | 110 - 120         | 3                             | 3                        | 1,50  | 40                        |   |
| DOL  | 220 - 240         | 3                             | 3                        | 3   | 40                        |   |
| <b>Pilot duty rating code</b>  |                   |                               |                          |   |                           |   |
| <i>Duty Code</i>   |                   |                               |                          |   |                           |   |
| A300   |                   |                               |                          |   |                           |   |
| <b>Temp. rating of wire</b>  |                   |                               |                          |   |                           |   |
|  |                   |                               | Temperature rating (°C)  | Intensité (A) Text                              |                           |   |
|  |                   |                               | 75                       | - only  |                           |   |
| <b>General Use</b>   |                   |                               |                          |   |                           |   |
| AC / DC  | Tension (V)       | Intensité (A)                 | Nb de phases             | Nb de pôles                                     | No. of contacts in series |   |
| AC   | 300               | 20                            | 1                        | 1   | 1                         |   |
| <b>GENERAL TECHNICAL INFORMATION</b>   |                   |                               |                          |   |                           |   |
| <b>Tightening torque of screws</b>   |                   |                               |                          |   |                           |   |
|  |                   |                               |                          | tightening torque (Nm)                          | tightening torque (lb-in) |   |
|  |                   |                               |                          | 0,60  | 5                         |   |
| <b>Stripping length</b>  |                   |                               |                          |   |                           |   |
|  |                   |                               |                          | Length (mm) -                                   | 8 STRIPPINGLENGTH         |   |
| <b>Size of conductor</b>   |                   |                               |                          |   |                           |   |
| composition of conductor   | Min. / Max. value | No. of conductor per terminal |                          | Cross section (mm <sup>2</sup> ) or (AWG/kcmil) | Material of the wire      |   |
| solid wire   | Min.              | 1                             |                          | 0,5mm <sup>2</sup>                              | Copper                    |   |
| solid wire   | Min.              | 2                             |                          | 0,5mm <sup>2</sup>                              | Copper                    |   |
| flexible wire  | Min.              | 1                             |                          | 0,75mm <sup>2</sup>                             | Copper                    |   |
| flexible wire  | Min.              | 2                             |                          | 0,75mm <sup>2</sup>                             | Copper                    |   |
| flexible wire  | Max.              | 2                             |                          | 2,5mm <sup>2</sup>                              | Copper                    |   |
| flexible wire  | Max.              | 2                             |                          | AWG 14  | Copper                    |   |
| Single-core or stranded wire   | Max.              | 2                             |                          | AWG 12  | Copper                    |   |
| Single-core or stranded wire   | Max.              | 2                             |                          | 2,5mm <sup>2</sup>                              | Copper                    |   |
| flexible wire with ferrule according to DIN 46228  | Min.              | 1                             |                          | 0,5mm <sup>2</sup>                              | Copper                    |   |
| flexible wire with ferrule according to DIN 46228  | Max.              | 2                             |                          | 2,5mm <sup>2</sup>                              | Copper                    |   |
| flexible wire with ferrule according to DIN 46228  | Min.              | 2                             |                          | 0,5mm <sup>2</sup>                              | Copper                    |   |
| <b>Approbations</b>  |                   |                               |                          |   |                           |   |
| <i>Specification</i>   |                   |                               |                          |   |                           | <i>Marking</i>  |
| EAC  |                   |                               |                          |   |                           |  |
| CE marking   |                   |                               |                          |   |                           |  |
| UK Directives  |                   |                               |                          |   |                           |  |
| CSA C.22.2 No.14   |                   |                               |                          |   |                           |  |
| GB/T14048.3  |                   |                               |                          |   |                           |  |
| <b>Recommandations concernant le tournevis</b>   |                   |                               |                          |   |                           |   |
| <i>Type</i>  |                   |                               | <i>Value</i>             |   |                           |   |
| Tournevis cruciforme   |                   |                               | PH1                      |   |                           |   |
| Slot screwdriver according to DIN 5264   |                   |                               | 0,8x4                    |   |                           |   |
| <b>General Information</b>   |                   |                               |                          |   |                           |   |
| <i>Text</i>  |                   |                               |                          |   |                           |   |
| - 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. |                   |                               |                          |   |                           |   |

## General Information

### Text

- 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 [www.krausnaimer.com](http://www.krausnaimer.com)

## Proposition 65

### Picture name Description



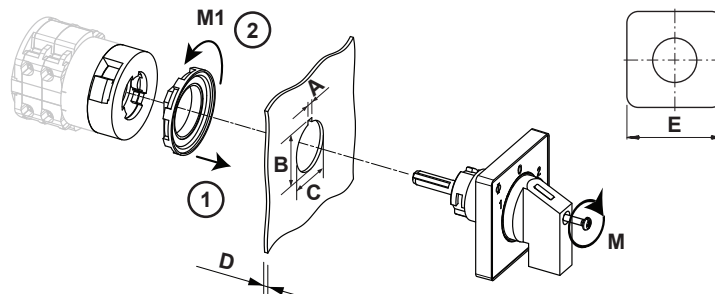
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Type de contacts: Rigid contact bridge

Revêtement des Contacts: Silver

Types de raccordement: Screw terminal

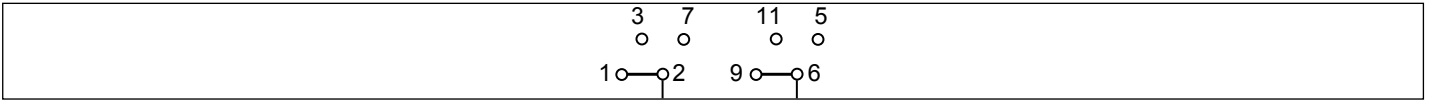
## Fixation-FT2



|                      |   |                   |
|----------------------|---|-------------------|
| 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                    | ↺ | 0,50 Nm           |
| M1                   | ↺ | 1,80 Nm           |


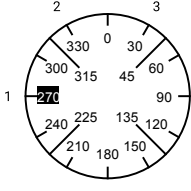
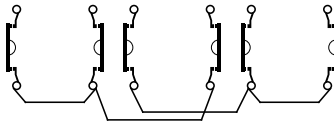
## Wiring diagram

CA10.A250.FT2



**Switch program**

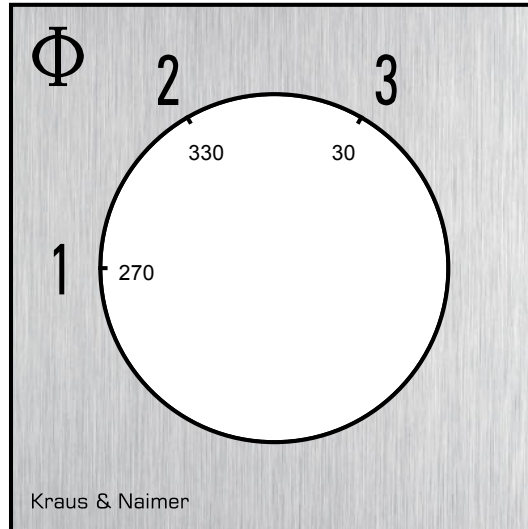
CA10.A250.FT2

|  Kraus & Naimer          |     | CA10  |   |   |   | A250 |    |    |    | Page 1 of 1 |    |    |    |
|---|-----|---|---|---|---|------|----|----|----|-------------|----|----|----|
|   |     | 1   | 3 | 5 | 7 | 9    | 11 | 13 | 15 | 17          | 19 | 21 | 23 |
| <b>Face Plate</b><br>    |     |  |   |   |   |      |    |    |    |             |    |    |    |
| Switching Angle <input type="text" value="60"/><br>Total switching Angle <input type="text" value="120"/> |     | 2   | 4 | 6 | 8 | 10   | 12 | 14 | 16 | 18          | 20 | 22 | 24 |
| 1   | 270 | ■   |   |   |   | ■    |    |    |    |             |    |    |    |
|   | 285 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 300 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 315 |   |   |   |   |      |    |    |    |             |    |    |    |
| 2   | 330 |   | ■ |   |   |      |    |    |    | ■           |    |    |    |
|   | 345 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 0   |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 15  |   |   |   |   |      |    |    |    |             |    |    |    |
| 3   | 30  |   |   | ■ | ■ |      |    |    |    |             |    |    |    |
|   | 45  |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 60  |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 75  |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 90  |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 105 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 120 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 135 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 150 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 165 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 180 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 195 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 210 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 225 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 240 |   |   |   |   |      |    |    |    |             |    |    |    |
|   | 255 |   |   |   |   |      |    |    |    |             |    |    |    |

Version: 80

**Face plate**

S0.F076/A10.E1L



## HANDLES

**Designation:** S0C.G251  
**Handle colour:** "1" black

