

Sample image

## Datasheet

**Article number:** 70009121

**Designation:** CH10.A210.FT2.F085

**Description:** Switch

|                                                                                                                                                                 |                           |                                                                         |                         |              |                           |                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------------|-------------------------|--------------|---------------------------|--------------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                       |                           |                                                                         |                         |              |                           |                          |
| Märkdriftspänning Ui                                                                                                                                            |                           |                                                                         |                         |              |                           |                          |
| Spänning (V) AC / DC                                                                                                                                            |                           |                                                                         |                         |              |                           |                          |
| 690 AC / DC                                                                                                                                                     |                           |                                                                         |                         |              |                           |                          |
| Märkdriftström vid konstant drift                                                                                                                               |                           |                                                                         |                         |              |                           |                          |
| Ström (A)                                                                                                                                                       | Omgivningstemperatur (°C) | Temperatur topp (°C) ytterligare krav                                   |                         |              |                           |                          |
| 20                                                                                                                                                              | 55                        | 60 Omgivningstemperatur +55°C under 24 timmar med toppar upp till +60°C |                         |              |                           |                          |
| Märkdriftström Ie                                                                                                                                               |                           |                                                                         |                         |              |                           |                          |
| Urvals kriterie                                                                                                                                                 |                           | Spänning (V)                                                            |                         |              |                           | Ström (A)                |
| AC-15                                                                                                                                                           |                           | 220 - 240                                                               |                         |              |                           | 6                        |
| AC-15                                                                                                                                                           |                           | 380 - 440                                                               |                         |              |                           | 4                        |
| Märkdrifteffekt                                                                                                                                                 |                           |                                                                         |                         |              |                           |                          |
| Urvals kriterie                                                                                                                                                 | Spänning (V)              |                                                                         | No. of phases           |              | No. of poles              | Effekt (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                     |
| Max försäkring, IEC                                                                                                                                             |                           |                                                                         |                         |              |                           |                          |
| Säkringskarakteristik                                                                                                                                           |                           |                                                                         |                         |              | Antal säkringar           | Ström (A)                |
| gG                                                                                                                                                              |                           |                                                                         |                         |              | 1                         | 25                       |
| UL60947-4-1 , UL508                                                                                                                                             |                           |                                                                         |                         |              |                           |                          |
| Nominal Voltage                                                                                                                                                 |                           |                                                                         |                         |              |                           |                          |
| Spänning (V) AC / DC                                                                                                                                            |                           |                                                                         |                         |              |                           |                          |
| 600 AC                                                                                                                                                          |                           |                                                                         |                         |              |                           |                          |
| Märkdriftspänning Ui                                                                                                                                            |                           |                                                                         |                         |              |                           |                          |
| Spänning (V) AC / DC                                                                                                                                            |                           |                                                                         |                         |              |                           |                          |
| 600 AC                                                                                                                                                          |                           |                                                                         |                         |              |                           |                          |
| Rated thermal current                                                                                                                                           |                           |                                                                         |                         |              |                           |                          |
| Ström (A)                                                                                                                                                       |                           | Omgivningstemperatur (°C) Additional Text                               |                         |              |                           |                          |
| 20                                                                                                                                                              |                           | 0 - 40 --                                                               |                         |              |                           |                          |
| Horsepower rating                                                                                                                                               |                           |                                                                         |                         |              |                           |                          |
| Across-the-Line Motor Starting                                                                                                                                  | Spänning (V)              |                                                                         | No. of phases           | No. of poles | 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                                                                                                                                                            |                           |                                                                         |                         |              |                           |                          |
| 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)                                                                                                                                         |                           |                                                                         | Ström (A) Text          |              |                           |                          |
| 60 - 75                                                                                                                                                         |                           |                                                                         | -- Use copper wire only |              |                           |                          |
| General Use                                                                                                                                                     |                           |                                                                         |                         |              |                           |                          |
| AC / DC                                                                                                                                                         | Spänning (V)              | Ström (A)                                                               | No. of phases           | No. of poles | No. of contacts in series |                          |
| AC                                                                                                                                                              | 277                       | 20                                                                      | 1                       | 1            | 1                         |                          |
| AC                                                                                                                                                              | 600                       | 20                                                                      | 1                       | 2            | 1                         |                          |

| General Use                                             |                   |                               |                           |                                                                                       |                           |  |
|---------------------------------------------------------|-------------------|-------------------------------|---------------------------|---------------------------------------------------------------------------------------|---------------------------|--|
| AC / DC                                                 | Spänning (V)      | Ström (A)                     | No. of phases             | No. of poles                                                                          | No. of contacts in series |  |
| AC                                                      | 600               | 20                            | 3                         | 3                                                                                     | 1                         |  |
| CSA                                                     |                   |                               |                           |                                                                                       |                           |  |
| Nominal Voltage                                         |                   |                               |                           |                                                                                       |                           |  |
|                                                         |                   |                               |                           | Spänning (V)                                                                          | AC / DC                   |  |
|                                                         |                   |                               |                           | 600                                                                                   | AC                        |  |
| Märkdriftspänning Ui                                    |                   |                               |                           |                                                                                       |                           |  |
|                                                         |                   |                               |                           | Spänning (V)                                                                          | AC / DC                   |  |
|                                                         |                   |                               |                           | 600                                                                                   | AC                        |  |
| Rated thermal current                                   |                   |                               |                           |                                                                                       |                           |  |
|                                                         |                   | Ström (A)                     | Omgivningstemperatur (°C) |                                                                                       | Additional Text           |  |
|                                                         |                   | 20                            | 0 - 40                    |                                                                                       | --                        |  |
| Horsepower rating                                       |                   |                               |                           |                                                                                       |                           |  |
| Across-the-Line Motor Starting                          | Spänning (V)      | No. of phases                 | No. of poles              | 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)   | Ström (A) Text                                                                        |                           |  |
|                                                         |                   |                               | 75                        | -- --                                                                                 |                           |  |
| General Use                                             |                   |                               |                           |                                                                                       |                           |  |
| AC / DC                                                 | Spänning (V)      | Ström (A)                     | No. of phases             | No. of poles                                                                          | 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                                             |                   |                               |                           |  |                           |  |
| Rekomenderad skruvmejsel                                |                   |                               |                           |                                                                                       |                           |  |
| Typ av skruvmejsel                                      |                   |                               | Value                     |                                                                                       |                           |  |
| Stjärnskruvmejsel                                       |                   |                               | PH1                       |                                                                                       |                           |  |
| Slot screwdriver according to DIN 5264                  |                   |                               | 0,8x4                     |                                                                                       |                           |  |
| General Information                                     |                   |                               |                           |                                                                                       |                           |  |
| Text                                                    |                   |                               |                           |                                                                                       |                           |  |
| - Smörjning och behandling av kontakterna är förbjuden. |                   |                               |                           |                                                                                       |                           |  |

## General Information

### Text

- Inkoppling och service av strömställaren får endast utföras av behörig personal. Strömställaren är underhållsfri.
- Använd endast kopparkabel. Kabeln får inte förtennas.
- Alla anslutningsskruvar måste dras med rekommenderat moment, även de som inte används då det kan finnas interna överkopplingar.
- Vid installation av strömställaren skall kontrolleras att kryp- och luftavstånd motsvarar gällande föreskrifter.

## 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



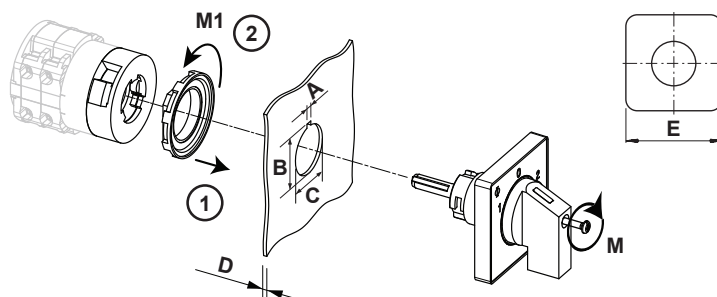
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

## Mounting-FT2



Skyddsklass frontpanel, IP 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

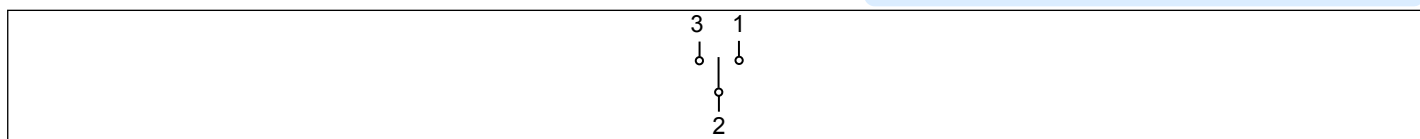
E □ 48,00 mm

M M̂ 0,50 Nm

M1 M̂ 1,80 Nm

## Wiring diagram

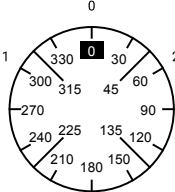
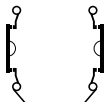
CH10.A210.FT2



## Switch program

CH10.A210.FT2

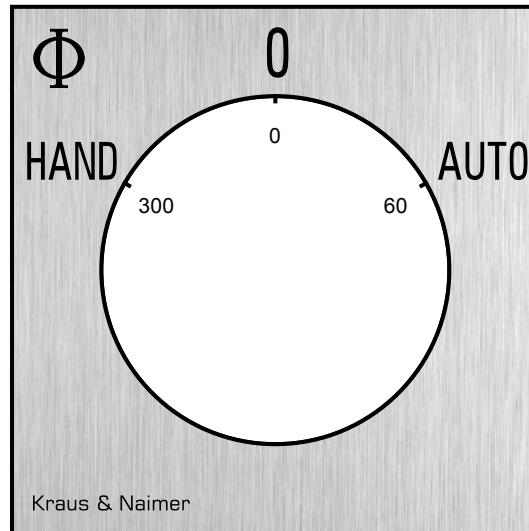
 Kraus & Naimer

|                                                                                                           |  | CH10 |   | A210 |   | Page 1 of 1 |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------------------------------|--|------|---|------|---|-------------|----|----|----|----|----|----|----|
| <b>Face Plate</b>                                                                                         |  |      |   |      |   |             |    |    |    |    |    |    |    |
|                          |  | 1    | 3 | 5    | 7 | 9           | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
|                          |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 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                                                                                                         |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 300                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 315                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 330                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 345                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 0                                                                                                         |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 15                                                                                                        |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 30                                                                                                        |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 45                                                                                                        |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 2                                                                                                         |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 60                                                                                                        |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 75                                                                                                        |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 90                                                                                                        |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 105                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 120                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 135                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 150                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 165                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 180                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 195                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 210                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 225                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 240                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 255                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 270                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |
| 285                                                                                                       |  |      |   |      |   |             |    |    |    |    |    |    |    |

Version: 102

## Face plate

S0.F085/A10.E1L



## HANDLES

**Designation:** S0C.G251

**Handle colour:** "1" black

