

Sample image

## Datasheet

**Article number:** 70014813

**Description:** Other Component

|                                                                                                                                                                 |                                   |                                          |                                                                                              |                            |                           |                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------|---------------------------|-------------------------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107                                                                                                                       |                                   |                                          |                                                                                              |                            |                           |                                     |
| Номинальное напряжение изоляции Ui                                                                                                                              |                                   |                                          |                                                                                              |                            |                           |                                     |
| Напряжение (В) Переменный ток/Постоянный ток                                                                                                                    |                                   |                                          |                                                                                              |                            |                           |                                     |
| 690 AC / DC                                                                                                                                                     |                                   |                                          |                                                                                              |                            |                           |                                     |
| Номинальный длительный ток Iu/Ith                                                                                                                               |                                   |                                          |                                                                                              |                            |                           |                                     |
| Сила тока (А)                                                                                                                                                   | Температура окружающей среды (°C) | Пиковое значение температуры (°C)        | Дополнительные требования                                                                    |                            |                           |                                     |
| 20                                                                                                                                                              | 55                                | 60                                       | Средняя температура окружающей среды +55°C в течение 24 часов с максимальным значением +60°C |                            |                           |                                     |
| Номинальный рабочий ток Ie                                                                                                                                      |                                   |                                          |                                                                                              |                            |                           |                                     |
| Категория применения                                                                                                                                            |                                   |                                          | Напряжение (диапазон) (В)                                                                    |                            | Сила тока (А)             |                                     |
| AC-15                                                                                                                                                           |                                   |                                          | 220 - 240                                                                                    |                            | 6                         |                                     |
| AC-15                                                                                                                                                           |                                   |                                          | 380 - 440                                                                                    |                            | 4                         |                                     |
| Номинальная рабочая мощность                                                                                                                                    |                                   |                                          |                                                                                              |                            |                           |                                     |
| Категория применения                                                                                                                                            |                                   | Напряжение (диапазон) (В)                |                                                                                              | Количество фаз             | Количество полюсов        | Мощность (кВт)                      |
| 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                                |
| Максимальный номинал предохранителя по IEC                                                                                                                      |                                   |                                          |                                                                                              |                            |                           |                                     |
| Характеристика предохранителя                                                                                                                                   |                                   |                                          |                                                                                              | Количество предохранителей |                           | Сила тока (А)                       |
| gG                                                                                                                                                              |                                   |                                          |                                                                                              | 1                          |                           | 25                                  |
| UL60947-4-1 , UL508                                                                                                                                             |                                   |                                          |                                                                                              |                            |                           |                                     |
| Nominal Voltage                                                                                                                                                 |                                   |                                          |                                                                                              |                            |                           |                                     |
| Voltage (V) AC / DC                                                                                                                                             |                                   |                                          |                                                                                              |                            |                           |                                     |
| 600 AC                                                                                                                                                          |                                   |                                          |                                                                                              |                            |                           |                                     |
| Номинальное напряжение изоляции Ui                                                                                                                              |                                   |                                          |                                                                                              |                            |                           |                                     |
| Напряжение (В) Переменный ток/Постоянный ток                                                                                                                    |                                   |                                          |                                                                                              |                            |                           |                                     |
| 600 AC                                                                                                                                                          |                                   |                                          |                                                                                              |                            |                           |                                     |
| Rated thermal current                                                                                                                                           |                                   |                                          |                                                                                              |                            |                           |                                     |
| Current (A)                                                                                                                                                     |                                   | Ambient temperature (°C) Additional Text |                                                                                              |                            |                           |                                     |
| 20                                                                                                                                                              |                                   | 0 - 40 --                                |                                                                                              |                            |                           |                                     |
| Horsepower rating                                                                                                                                               |                                   |                                          |                                                                                              |                            |                           |                                     |
| Across-the-Line Motor Starting                                                                                                                                  |                                   |                                          | Voltage (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)                                                                                                                                         |                                   |                                          | Current (A) Text                                                                             |                            |                           |                                     |
| 60 - 75                                                                                                                                                         |                                   |                                          | -- Use copper wire only                                                                      |                            |                           |                                     |
| General Use                                                                                                                                                     |                                   |                                          |                                                                                              |                            |                           |                                     |
| AC / DC                                                                                                                                                         | Voltage (V)                       | Current (A)                              | No. of phases                                                                                | No. of poles               | No. of contacts in series |                                     |
| AC                                                                                                                                                              | 277                               | 20                                       | 1                                                                                            | 1                          | 1                         |                                     |

| General Use                                       |                   |                               |                          |                                                                                       |                               |                          |
|---------------------------------------------------|-------------------|-------------------------------|--------------------------|---------------------------------------------------------------------------------------|-------------------------------|--------------------------|
| AC / DC                                           | Voltage (V)       | Current (A)                   | No. of phases            | No. of poles                                                                          | No. of contacts in series     |                          |
| AC                                                | 600               | 20                            | 1                        | 2                                                                                     | 1                             |                          |
| AC                                                | 600               | 20                            | 3                        | 3                                                                                     | 1                             |                          |
| CSA                                               |                   |                               |                          |                                                                                       |                               |                          |
| Nominal Voltage                                   |                   |                               |                          |                                                                                       |                               |                          |
|                                                   |                   |                               |                          | Voltage (V)                                                                           | AC / DC                       |                          |
|                                                   |                   |                               |                          | 600                                                                                   | AC                            |                          |
| Номинальное напряжение изоляции Ui                |                   |                               |                          |                                                                                       |                               |                          |
|                                                   |                   |                               |                          | Напряжение (В)                                                                        | Переменный ток/Постоянный ток |                          |
|                                                   |                   |                               |                          | 600                                                                                   | AC                            |                          |
| Rated thermal current                             |                   |                               |                          |                                                                                       |                               |                          |
|                                                   |                   | Current (A)                   | Ambient temperature (°C) |                                                                                       | Additional Text               |                          |
|                                                   |                   | 20                            | 0 - 40                   |                                                                                       | --                            |                          |
| Horsepower rating                                 |                   |                               |                          |                                                                                       |                               |                          |
| Across-the-Line Motor Starting                    |                   |                               |                          | Voltage (V)                                                                           | No. of phases                 | Ambient temperature [°C] |
| DOL                                               |                   |                               |                          | 110 - 120                                                                             | 1                             | 40                       |
| DOL                                               |                   |                               |                          | 220 - 240                                                                             | 1                             | 40                       |
| DOL                                               |                   |                               |                          | 277 - 277                                                                             | 1                             | 40                       |
| DOL                                               |                   |                               |                          | 440 - 480                                                                             | 1                             | 40                       |
| DOL                                               |                   |                               |                          | 550 - 600                                                                             | 1                             | 40                       |
| DOL                                               |                   |                               |                          | 110 - 120                                                                             | 3                             | 40                       |
| DOL                                               |                   |                               |                          | 220 - 240                                                                             | 3                             | 40                       |
| DOL                                               |                   |                               |                          | 440 - 480                                                                             | 3                             | 40                       |
| DOL                                               |                   |                               |                          | 550 - 600                                                                             | 3                             | 40                       |
| Pilot duty rating code                            |                   |                               |                          |                                                                                       |                               |                          |
| Duty Code                                         |                   |                               |                          |                                                                                       |                               |                          |
| A600                                              |                   |                               |                          |                                                                                       |                               |                          |
| Temp. rating of wire                              |                   |                               |                          |                                                                                       |                               |                          |
|                                                   |                   |                               | Temperature rating (°C)  | Current (A)                                                                           | Text                          |                          |
|                                                   |                   |                               | 75                       | --                                                                                    | --                            |                          |
| General Use                                       |                   |                               |                          |                                                                                       |                               |                          |
| AC / DC                                           | Voltage (V)       | Current (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                             |                          |
| ОСНОВНАЯ ТЕХНИЧЕСКАЯ ИНФОРМАЦИЯ                   |                   |                               |                          |                                                                                       |                               |                          |
| Момент затяжки винтов                             |                   |                               |                          |                                                                                       |                               |                          |
|                                                   |                   |                               | Момент затяжки (Нм)      | Момент затяжки (фунт-дюйм)                                                            |                               |                          |
|                                                   |                   |                               | 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                                       |                   |                               |                          |  |                               |                          |
| Рекомендуемая отвертка                            |                   |                               |                          |                                                                                       |                               |                          |
| Тип отвертки                                      |                   |                               | Value                    |                                                                                       |                               |                          |
| Крестовая отвёртка                                |                   |                               | PH1                      |                                                                                       |                               |                          |
| Slot screwdriver according to DIN 5264            |                   |                               | 0,8x4                    |                                                                                       |                               |                          |
| Общая информация                                  |                   |                               |                          |                                                                                       |                               |                          |
| Текст                                             |                   |                               |                          |                                                                                       |                               |                          |
| - Не смазывайте и не разбирайте контакты.         |                   |                               |                          |                                                                                       |                               |                          |

## Общая информация

### Текст

- Переключатели могут быть установлены, подключены и введены в эксплуатацию только квалифицированным персоналом в соответствии с принятыми техническими правилами.
- Используйте только медные провода. Не покрывать конец провода оловом.
- Клеммы с заводскими перемычками затянуты в процессе производства. Во время откручивания скреплённых перемычками клемм проследите, что бы перемычки не потерялись. После подключения все винты клемм должны быть затянуты с рекомендуемым моментом затяжки винта.
- После установки переключателей расстояния между клеммами должны быть достаточными для выполнения требований применимых стандартов.

### 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



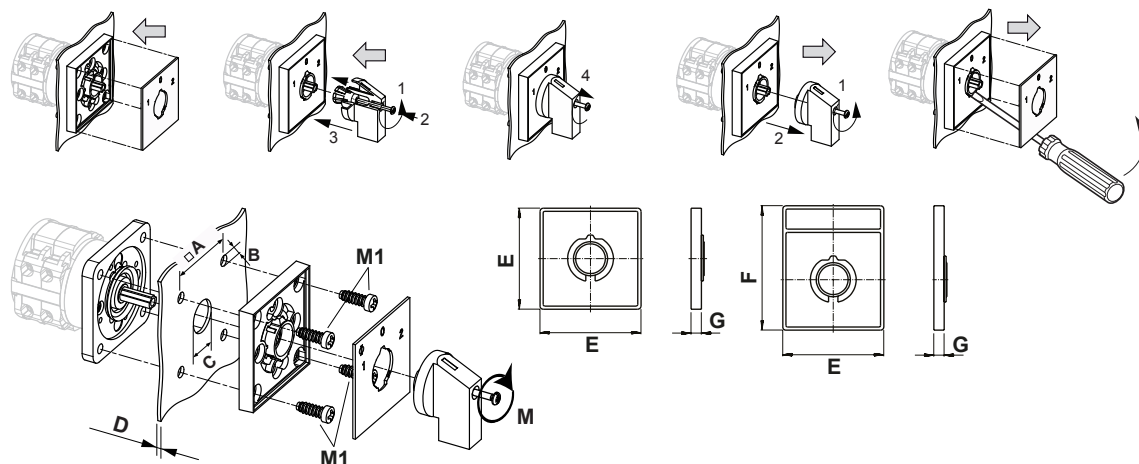
WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

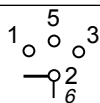
## Mounting-EF



|                          |   |                   |
|--------------------------|---|-------------------|
| IP - Код лицевая сторона |   | IP66, IP67, IP69k |
| Stages                   |   | 1,00 - 12,00      |
| A                        | □ | 36,00 mm          |
| B                        | ∅ | 5,00 mm           |
| C                        | ∅ | 15,00 - 19,00 mm  |
| D                        | H | <= 4,00 mm        |
| E                        | H | 48,00 mm          |
| F                        | H | 59,00 mm          |
| G                        | H | 6,70 mm           |
| M                        | ⌘ | 0,50 Nm           |
| M1                       | ⌘ | 0,90 Nm           |

## Wiring diagram

CH10.A241.EF



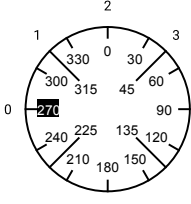
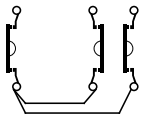
## Switch program

CH10.A241.EF



Kraus & Naimer

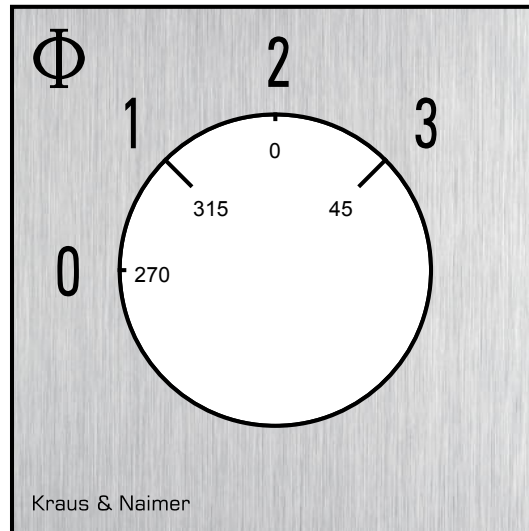
CH10
A241
Page 1 of 1

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

Version: 69

## Face plate

S0.F109/A1B.PEL



## HANDLES

**Designation:** S0C.G251

**Handle colour:** "1" black

