



Sample image

## Datasheet

**Article number:** 70024209

**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                                  |                                   |                                   |                                                                                              |                     |
| Rated impulse withstand voltage Uimp         |                                   |                                   |                                                                                              |                     |
| Voltage (kV)                                 | Overvoltage category              | Pollution degree                  | Supply system                                                                                | Function            |
| 4                                            | III                               | 3                                 | Valid for lines with grounded common neutral termination                                     | Switch disconnecter |
| 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                          |               |                 |            |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                          |  | 300 AC / DC                                  |               |                 |            |                          |
| Номинальное напряжение изоляции Ui                                                                                                                                                                                                                                                                                                                                                                       |  |                                              |               |                 |            |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                          |  | Напряжение (В) Переменный ток/Постоянный ток |               |                 |            |                          |
|                                                                                                                                                                                                                                                                                                                                                                                                          |  | 300 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] |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  | 110 - 120                                    | 1             | 2               | 0,17       | 40                       |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  | 220 - 240                                    | 1             | 2               | 0,50       | 40                       |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  | 277 - 277                                    | 1             | 2               | 0,60       | 40                       |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  | 110 - 120                                    | 3             | 3               | 0,50       | 40                       |
| Reversing                                                                                                                                                                                                                                                                                                                                                                                                |  | 220 - 240                                    | 3             | 3               | 1          | 40                       |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      |  | 110 - 120                                    | 1             | 2               | 0,50       | 40                       |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      |  | 220 - 240                                    | 1             | 2               | 1          | 40                       |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      |  | 277 - 277                                    | 1             | 2               | 2          | 40                       |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      |  | 110 - 120                                    | 3             | 3               | 1,50       | 40                       |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      |  | 220 - 240                                    | 3             | 3               | 3          | 40                       |
| Pilot duty rating code                                                                                                                                                                                                                                                                                                                                                                                   |  |                                              |               |                 |            |                          |
| Duty Code                                                                                                                                                                                                                                                                                                                                                                                                |  |                                              |               |                 |            |                          |
| A300                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                              |               |                 |            |                          |
| SCCR / Max. fuse rating                                                                                                                                                                                                                                                                                                                                                                                  |  |                                              |               |                 |            |                          |
| Conditions of acceptability                                                                                                                                                                                                                                                                                                                                                                              |  |                                              |               |                 |            |                          |
| These devices are suitable for use on circuits capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. Manual Motor Controllers when intended for use as a motor disconnecter are suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes, 600V ac max. when protected by 30A Class J time delay fuses. |  |                                              |               |                 |            |                          |

|                                                                                                                             |                   |                               |                                              |                                    |                            |                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------|----------------------------------------------|------------------------------------|----------------------------|---------------------------------------------------------------------------------------|
| Temp. rating of wire                                                                                                        |                   |                               |                                              |                                    |                            |                                                                                       |
| Temperature rating (°C)                                                                                                     |                   |                               | Current (A) Text                             |                                    |                            |                                                                                       |
| 60 - 75                                                                                                                     |                   |                               | – Use copper wire only                       |                                    |                            |                                                                                       |
| Connecting instructions                                                                                                     |                   |                               |                                              |                                    |                            |                                                                                       |
| Markings                                                                                                                    |                   |                               |                                              |                                    |                            |                                                                                       |
| When intended for use as a motor disconnect the device shall be provided with a method of being locked in the OFF-position. |                   |                               |                                              |                                    |                            |                                                                                       |
| General Use                                                                                                                 |                   |                               |                                              |                                    |                            |                                                                                       |
| AC / DC                                                                                                                     | Voltage (V)       | Current (A)                   | No. of phases                                | No. of poles                       | No. of contacts in series  |                                                                                       |
| AC                                                                                                                          | 300               | 20                            | 1                                            | 2                                  | 1                          |                                                                                       |
| AC                                                                                                                          | 300               | 20                            | 3                                            | 3                                  | 1                          |                                                                                       |
| CSA                                                                                                                         |                   |                               |                                              |                                    |                            |                                                                                       |
| Nominal Voltage                                                                                                             |                   |                               |                                              |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | Voltage (V) AC / DC                          |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | 300 AC                                       |                                    |                            |                                                                                       |
| Номинальное напряжение изоляции Ui                                                                                          |                   |                               |                                              |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | Напряжение (В) Переменный ток/Постоянный ток |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | 300 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                                                                                                                         |                   | 110 - 120                     | 3                                            | 3                                  | 1,50                       | 40                                                                                    |
| DOL                                                                                                                         |                   | 220 - 240                     | 3                                            | 3                                  | 3                          | 40                                                                                    |
| Pilot duty rating code                                                                                                      |                   |                               |                                              |                                    |                            |                                                                                       |
| Duty Code                                                                                                                   |                   |                               |                                              |                                    |                            |                                                                                       |
| A300                                                                                                                        |                   |                               |                                              |                                    |                            |                                                                                       |
| Temp. rating of wire                                                                                                        |                   |                               |                                              |                                    |                            |                                                                                       |
| Temperature rating (°C)                                                                                                     |                   |                               | Current (A) Text                             |                                    |                            |                                                                                       |
| 75                                                                                                                          |                   |                               | – only                                       |                                    |                            |                                                                                       |
| General Use                                                                                                                 |                   |                               |                                              |                                    |                            |                                                                                       |
| AC / DC                                                                                                                     | Voltage (V)       | Current (A)                   | No. of phases                                | No. of poles                       | No. of contacts in series  |                                                                                       |
| AC                                                                                                                          | 300               | 20                            | 1                                            | 1                                  | 1                          |                                                                                       |
| ОСНОВНАЯ ТЕХНИЧЕСКАЯ ИНФОРМАЦИЯ                                                                                             |                   |                               |                                              |                                    |                            |                                                                                       |
| Момент затяжки винтов                                                                                                       |                   |                               |                                              |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | Момент затяжки (Нм)                          |                                    | Момент затяжки (фунт-дюйм) |                                                                                       |
|                                                                                                                             |                   |                               | 0,60                                         |                                    | 5                          |                                                                                       |
| Stripping length                                                                                                            |                   |                               |                                              |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | Length (mm) –                                |                                    |                            |                                                                                       |
|                                                                                                                             |                   |                               | 8 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                             |                                              | 0,5mm²                             |                            | Copper                                                                                |
| solid wire                                                                                                                  | Min.              | 2                             |                                              | 0,5mm²                             |                            | Copper                                                                                |
| flexible wire                                                                                                               | Min.              | 1                             |                                              | 0,75mm²                            |                            | Copper                                                                                |
| flexible wire                                                                                                               | Min.              | 2                             |                                              | 0,75mm²                            |                            | Copper                                                                                |
| flexible wire                                                                                                               | Max.              | 2                             |                                              | 2,5mm²                             |                            | Copper                                                                                |
| flexible wire                                                                                                               | Max.              | 2                             |                                              | AWG 14                             |                            | Copper                                                                                |
| Single-core or stranded wire                                                                                                | Max.              | 2                             |                                              | AWG 12                             |                            | Copper                                                                                |
| Single-core or stranded wire                                                                                                | Max.              | 2                             |                                              | 2,5mm²                             |                            | Copper                                                                                |
| flexible wire with ferrule according to DIN 46228                                                                           | Min.              | 1                             |                                              | 0,5mm²                             |                            | Copper                                                                                |
| flexible wire with ferrule according to DIN 46228                                                                           | Max.              | 2                             |                                              | 2,5mm²                             |                            | Copper                                                                                |
| flexible wire with ferrule according to DIN 46228                                                                           | Min.              | 2                             |                                              | 0,5mm²                             |                            | 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 <a href="http://www.krausnaimer.com">www.krausnaimer.com</a> |

## Proposition 65

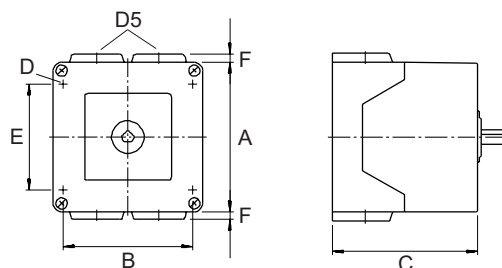
| Picture name                                                                     | Description                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | WARNING: This product can expose you to chemicals including nickel and lead, which is known to the State of California to cause cancer. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> . |

Classification Contact: Rigid contact bridge

Classification Contact Mat: Silver

Classification Terminal: Screw terminal

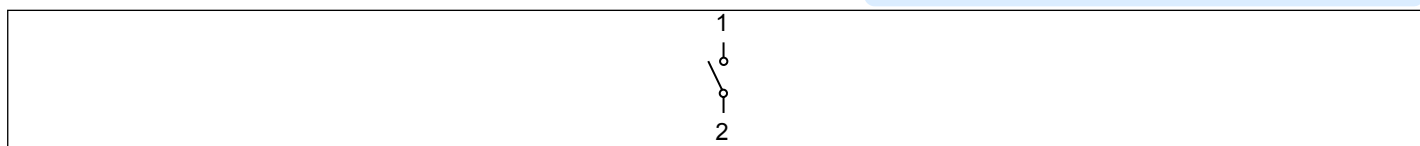
## Mounting-PF1



| IP - Код лицевая сторона | IP65         |
|--------------------------|--------------|
| Stages                   | 1,00 - 1,00  |
| A                        | □ 64,00 mm   |
| B                        | ⊢ 50,00 mm   |
| C                        | ⊢ 41,30 mm   |
| D                        | ∅ 4,40 mm    |
| D5                       | ∅ 4,00 x M20 |
| E                        | ⊢ 36,00 mm   |
| F                        | ⊢ 4,00 mm    |

## Wiring diagram

CA10.A290.PF1



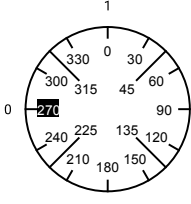
## Switch program

CA10.A290.PF1



Kraus & Naimer

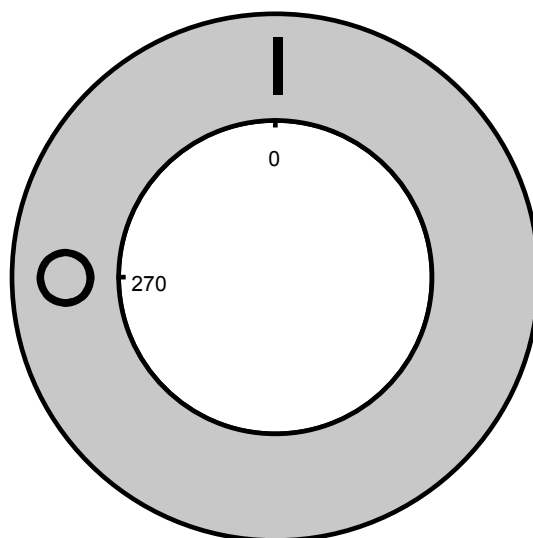
CA10
A290
Page 1 of 1

| Face Plate                                                                        |     |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------|-----|-----------------------------------------------------------------------------------|---|---|---|----|----|----|----|----|----|----|----|
|  |     |  |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   |     | 1                                                                                 | 3 | 5 | 7 | 9  | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
| Switching Angle                                                                   | 90  | 2                                                                                 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| Total switching Angle                                                             | 90  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
| 0                                                                                 | 270 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 285 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 300 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 315 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 330 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 345 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
| 1                                                                                 | 0   |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 15  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 30  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 45  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 60  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 75  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 90  |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 105 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 120 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 135 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 150 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 165 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 180 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 195 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 210 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 225 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 240 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |
|                                                                                   | 255 |                                                                                   |   |   |   |    |    |    |    |    |    |    |    |

Version: 81

## Face plate

S0.F456/C10.V11





Sample image

## PADLOCK DEVICE with F-handle ring for type of mounting E, EF, E22, FT, VE, GK, PN, PF, KS (S00)

**Designation:** S0.V840D/D6-PN

**Colour of F-handle ring:** "D" red

**Colour of face ring:** "6" yellow

**Type of mounting:** "-PN" for type of mounting PN, PF

