



Sample image

## Datasheet

Article number: 70024333

Description: Other Component

|                                           |           |              |                                    |             |                          |
|-------------------------------------------|-----------|--------------|------------------------------------|-------------|--------------------------|
| IEC 60947-3 EN 60947-3, VDE 0660 Teil 107 |           |              |                                    |             |                          |
| 定格絶縁電圧 Ui                                 |           |              |                                    |             |                          |
| 電圧 (V) AC / DC                            |           |              |                                    |             |                          |
| 690 AC / DC                               |           |              |                                    |             |                          |
| 定格連続電流 Iu/Ith                             |           |              |                                    |             |                          |
| Current (A)                               | 周囲温度 (°C) | ピーク温度 (°C)   | 追加要求事項                             |             |                          |
| 25                                        | 55        | 60           | 周囲温度 +55°C、24 時間、ただし 瞬時ピーク温度 +60°C |             |                          |
| 定格操作電流 Ie                                 |           |              |                                    |             |                          |
| 負荷種別                                      | 電圧 (V)    |              |                                    | Current (A) |                          |
| AC-15                                     | 220 - 240 |              |                                    | 8           |                          |
| AC-15                                     | 380 - 440 |              |                                    | 5           |                          |
| 定格操作電力                                    |           |              |                                    |             |                          |
| 負荷種別                                      | 電圧 (V)    | 相数           | 極数                                 | 電力 (kW)     |                          |
| AC-3                                      | 220 - 240 | 3            | 3                                  | 4           |                          |
| AC-3                                      | 380 - 440 | 3            | 3                                  | 7,50        |                          |
| AC-3                                      | 660 - 690 | 3            | 3                                  | 7,50        |                          |
| AC-3                                      | 220 - 240 | 1            | 2                                  | 3           |                          |
| AC-3                                      | 380 - 440 | 1            | 2                                  | 3,70        |                          |
| AC-23A                                    | 220 - 240 | 3            | 3                                  | 5,50        |                          |
| AC-23A                                    | 380 - 440 | 3            | 3                                  | 11          |                          |
| AC-23A                                    | 660 - 690 | 3            | 3                                  | 11          |                          |
| AC-23A                                    | 220 - 240 | 1            | 2                                  | 3           |                          |
| AC-23A                                    | 380 - 440 | 1            | 2                                  | 5,50        |                          |
| 最大ヒューズ定格 IEC                              |           |              |                                    |             |                          |
| ヒューズ特性                                    | ヒューズ数     |              |                                    | Current (A) |                          |
| gG                                        | 1         |              |                                    | 35          |                          |
| UL60947-4-1, UL508                        |           |              |                                    |             |                          |
| Nominal Voltage                           |           |              |                                    |             |                          |
| 電圧 (V) AC / DC                            |           |              |                                    |             |                          |
| 600 AC                                    |           |              |                                    |             |                          |
| 定格絶縁電圧 Ui                                 |           |              |                                    |             |                          |
| 電圧 (V) AC / DC                            |           |              |                                    |             |                          |
| 600 AC                                    |           |              |                                    |             |                          |
| 定格熱電流                                     |           |              |                                    |             |                          |
| Current (A)                               |           | 周囲温度 (°C) 備考 |                                    |             |                          |
| 30                                        |           | 0 - 40 --    |                                    |             |                          |
| Horsepower rating                         |           |              |                                    |             |                          |
| Across-the-Line Motor Starting            | 電圧 (V)    | 相数           | 極数                                 | Power (HP)  | Ambient temperature [°C] |
| Reversing                                 | 110 - 120 | 1            | 2                                  | 0,33        | 40                       |
| Reversing                                 | 220 - 240 | 1            | 2                                  | 0,75        | 40                       |
| Reversing                                 | 277 - 277 | 1            | 2                                  | 1           | 40                       |
| Reversing                                 | 415 - 415 | 1            | 2                                  | 1,50        | 40                       |
| Reversing                                 | 440 - 480 | 1            | 2                                  | 2           | 40                       |
| Reversing                                 | 550 - 600 | 1            | 2                                  | 2           | 40                       |
| Reversing                                 | 110 - 120 | 3            | 3                                  | 1           | 40                       |
| Reversing                                 | 220 - 240 | 3            | 3                                  | 2           | 40                       |
| Reversing                                 | 415 - 415 | 3            | 3                                  | 3           | 40                       |
| Reversing                                 | 440 - 480 | 3            | 3                                  | 5           | 40                       |
| Reversing                                 | 550 - 600 | 3            | 3                                  | 5           | 40                       |
| DOL                                       | 110 - 120 | 1            | 2                                  | 1,50        | 40                       |
| DOL                                       | 220 - 240 | 1            | 2                                  | 3           | 40                       |
| DOL                                       | 277 - 277 | 1            | 2                                  | 3           | 40                       |
| DOL                                       | 415 - 415 | 1            | 2                                  | 3           | 40                       |
| DOL                                       | 440 - 480 | 1            | 2                                  | 5           | 40                       |
| DOL                                       | 550 - 600 | 1            | 2                                  | 5           | 40                       |
| DOL                                       | 110 - 120 | 3            | 3                                  | 3           | 40                       |
| DOL                                       | 220 - 240 | 3            | 3                                  | 7,50        | 40                       |
| DOL                                       | 415 - 415 | 3            | 3                                  | 7,50        | 40                       |
| DOL                                       | 440 - 480 | 3            | 3                                  | 10          | 40                       |

| Horsepower rating                                                                                                                                                                                                                                                                                                                                                                                        |           |              |                          |            |                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------|--------------------------|------------|---------------------------|
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                                                                                                                           | 電圧 (V)    | 相数           | 極数                       | Power (HP) | Ambient temperature [°C]  |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 550 - 600 | 3            | 3                        | 10         | 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 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         |            |                           |
| 75                                                                                                                                                                                                                                                                                                                                                                                                       |           |              | -- Use copper wire only  |            |                           |
| Connecting instructions                                                                                                                                                                                                                                                                                                                                                                                  |           |              |                          |            |                           |
| Markings                                                                                                                                                                                                                                                                                                                                                                                                 |           |              |                          |            |                           |
| モータ断路器として使用する場合は、装置にはOFF位置でロックする方法を設けなければならない。                                                                                                                                                                                                                                                                                                                                                           |           |              |                          |            |                           |
| General Use                                                                                                                                                                                                                                                                                                                                                                                              |           |              |                          |            |                           |
| AC / DC                                                                                                                                                                                                                                                                                                                                                                                                  | 電圧 (V)    | Current (A)  | 相数                       | 極数         | No. of contacts in series |
| AC                                                                                                                                                                                                                                                                                                                                                                                                       | 600       | 30           | 1                        | 2          | 1                         |
| AC                                                                                                                                                                                                                                                                                                                                                                                                       | 600       | 30           | 3                        | 3          | 1                         |
| CSA                                                                                                                                                                                                                                                                                                                                                                                                      |           |              |                          |            |                           |
| Nominal Voltage                                                                                                                                                                                                                                                                                                                                                                                          |           |              |                          |            |                           |
| 電圧 (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                           |           |              |                          |            |                           |
| 600 AC                                                                                                                                                                                                                                                                                                                                                                                                   |           |              |                          |            |                           |
| 定格絶縁電圧 Ui                                                                                                                                                                                                                                                                                                                                                                                                |           |              |                          |            |                           |
| 電圧 (V) AC / DC                                                                                                                                                                                                                                                                                                                                                                                           |           |              |                          |            |                           |
| 600 AC                                                                                                                                                                                                                                                                                                                                                                                                   |           |              |                          |            |                           |
| 定格熱電流                                                                                                                                                                                                                                                                                                                                                                                                    |           |              |                          |            |                           |
| Current (A)                                                                                                                                                                                                                                                                                                                                                                                              |           | 周囲温度 (°C) 備考 |                          |            |                           |
| 30                                                                                                                                                                                                                                                                                                                                                                                                       |           | 0 - 40 --    |                          |            |                           |
| Horsepower rating                                                                                                                                                                                                                                                                                                                                                                                        |           |              |                          |            |                           |
| Across-the-Line Motor Starting                                                                                                                                                                                                                                                                                                                                                                           | 電圧 (V)    | 相数           | 極数                       | Power (HP) | Ambient temperature [°C]  |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 110 - 120 | 1            | 2                        | 1,50       | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 220 - 240 | 1            | 2                        | 3          | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 277 - 277 | 1            | 2                        | 3          | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 415 - 415 | 1            | 2                        | 5          | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 440 - 480 | 1            | 2                        | 5          | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 550 - 600 | 1            | 2                        | 5          | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 110 - 120 | 3            | 3                        | 3          | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 220 - 240 | 3            | 3                        | 7,50       | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 415 - 415 | 3            | 3                        | 10         | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 440 - 480 | 3            | 3                        | 10         | 40                        |
| DOL                                                                                                                                                                                                                                                                                                                                                                                                      | 550 - 600 | 3            | 3                        | 10         | 40                        |
| Pilot duty rating code                                                                                                                                                                                                                                                                                                                                                                                   |           |              |                          |            |                           |
| Duty Code                                                                                                                                                                                                                                                                                                                                                                                                |           |              |                          |            |                           |
| A600                                                                                                                                                                                                                                                                                                                                                                                                     |           |              |                          |            |                           |
| Temp. rating of wire                                                                                                                                                                                                                                                                                                                                                                                     |           |              |                          |            |                           |
| Temperature rating (°C)                                                                                                                                                                                                                                                                                                                                                                                  |           |              | Current (A) Text         |            |                           |
| 75                                                                                                                                                                                                                                                                                                                                                                                                       |           |              | -- only                  |            |                           |
| General Use                                                                                                                                                                                                                                                                                                                                                                                              |           |              |                          |            |                           |
| AC / DC                                                                                                                                                                                                                                                                                                                                                                                                  | 電圧 (V)    | Current (A)  | 相数                       | 極数         | No. of contacts in series |
| AC                                                                                                                                                                                                                                                                                                                                                                                                       | 600       | 30           | 1                        | 1          | 1                         |
| GENERAL TECHNICAL INFORMATION                                                                                                                                                                                                                                                                                                                                                                            |           |              |                          |            |                           |
| 端子ネジ締付トルク                                                                                                                                                                                                                                                                                                                                                                                                |           |              |                          |            |                           |
| 締付トルク (Nm)                                                                                                                                                                                                                                                                                                                                                                                               |           |              | 締付トルク (lb-in)            |            |                           |
| 1                                                                                                                                                                                                                                                                                                                                                                                                        |           |              | 9                        |            |                           |
| Stripping length                                                                                                                                                                                                                                                                                                                                                                                         |           |              |                          |            |                           |
| Length (mm) --                                                                                                                                                                                                                                                                                                                                                                                           |           |              |                          |            |                           |
| 9 STRIPPINGLENGTH                                                                                                                                                                                                                                                                                                                                                                                        |           |              |                          |            |                           |
| 電線サイズ                                                                                                                                                                                                                                                                                                                                                                                                    |           |              |                          |            |                           |
| 電線種別                                                                                                                                                                                                                                                                                                                                                                                                     | 最小値 / 最大値 | 1端子当たりの配線数   | 断面積 (mm²) or (AWG/kcmil) | 電線材料       |                           |
| 単線                                                                                                                                                                                                                                                                                                                                                                                                       | 最小        | 1            | 0.75mm²                  | 銅          |                           |
| 単線                                                                                                                                                                                                                                                                                                                                                                                                       | 最小        | 2            | 0.75mm²                  | 銅          |                           |
| 細撚線                                                                                                                                                                                                                                                                                                                                                                                                      | 最小        | 1            | 1.5mm²                   | 銅          |                           |
| 細撚線                                                                                                                                                                                                                                                                                                                                                                                                      | 最大        | 2            | AWG 12                   | 銅          |                           |
| 細撚線                                                                                                                                                                                                                                                                                                                                                                                                      | 最大        | 2            | 4mm²                     | 銅          |                           |
| 細撚線                                                                                                                                                                                                                                                                                                                                                                                                      | 最小        | 2            | 1.5mm²                   | 銅          |                           |
| 単線または荒撚線                                                                                                                                                                                                                                                                                                                                                                                                 | 最大        | 2            | AWG 10                   | 銅          |                           |
| 単線または荒撚線                                                                                                                                                                                                                                                                                                                                                                                                 | 最大        | 2            | 4mm²                     | 銅          |                           |
| DIN46228規格フェルル適用の細撚線                                                                                                                                                                                                                                                                                                                                                                                     | 最小        | 1            | 1mm²                     | 銅          |                           |
| DIN46228規格フェルル適用の細撚線                                                                                                                                                                                                                                                                                                                                                                                     | 最大        | 2            | 2.5mm²                   | 銅          |                           |
| DIN46228規格フェルル適用の細撚線                                                                                                                                                                                                                                                                                                                                                                                     | 最小        | 2            | 1mm²                     | 銅          |                           |
| 認証                                                                                                                                                                                                                                                                                                                                                                                                       |           |              |                          |            |                           |
| 仕様                                                                                                                                                                                                                                                                                                                                                                                                       |           |              |                          |            |                           |
| マーキング                                                                                                                                                                                                                                                                                                                                                                                                    |           |              |                          |            |                           |
| EAC                                                                                                                                                                                                                                                                                                                                                                                                      |           |              |                          |            |                           |
| CEマーキング                                                                                                                                                                                                                                                                                                                                                                                                  |           |              |                          |            |                           |
| EAC                                                                                                                                                                                                                                                                                                                                                                                                      |           |              |                          |            |                           |
| CE                                                                                                                                                                                                                                                                                                                                                                                                       |           |              |                          |            |                           |

認証

仕様

UK Directives

CSA C.22.2 No.14

GB/T14048.3

Recommended screw driver

Type of screw driver

Cross Screwdriver

Slot screwdriver according to DIN 5264

Value

PH1

0,8x5,5

注意事項

備考

- 接点に潤滑剤を塗布したり、表面処理をしたりしないでください。

- スイッチの取り付け、接続、操作の設定は、技術的に認められた規則に従って、有資格者のみが行うことができます。

- 銅線のみを使用してください。電線を半田付けしないでください。

- ジャンパー線(コモン線)に接続された端子ネジは工場出荷時には仮締め状態となっています。ジャンパー線(コモン線)に接続された端子ネジの締め付けを含む全ての端子ネジが、必ず適切なトルクで締められていることをご確認の上、ご使用ください。

- スイッチの設置後、端子間の間隔は、適用される規格の要件を満たすのに十分なものでなければならない。

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).

マーキング

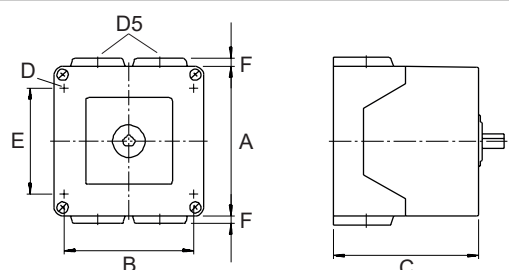
UK  
CA





GB/T14048.3

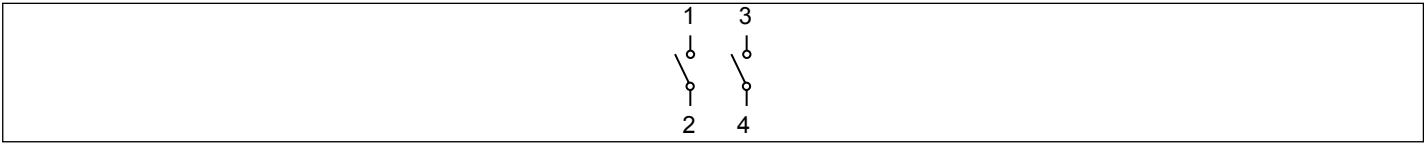
|                                              |
|----------------------------------------------|
| Classification Contact: Rigid contact bridge |
| Classification Contact Mat: Silver           |
| Classification Terminal: Screw terminal      |

|                                                                                     |   |             |  |
|-------------------------------------------------------------------------------------|---|-------------|--|
| <b>Mounting-PF1</b>                                                                 |   |             |  |
|  |   |             |  |
| IP - Code front side                                                                |   | IP65        |  |
| Stages                                                                              |   | 1,00 - 2,00 |  |
| A                                                                                   | □ | 82,00 mm    |  |
| B                                                                                   | H | 68,00 mm    |  |
| C                                                                                   | H | 64,70 mm    |  |
| D                                                                                   | Ø | 4,40 mm     |  |
| D5                                                                                  | Ø | 4,00 x M20  |  |
| E                                                                                   | H | 52,00 mm    |  |
| F                                                                                   | H | 5,00 mm     |  |



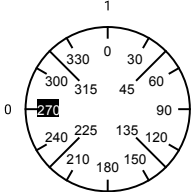
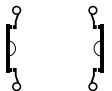
Wiring diagram

CA20.A291.PF1



## Switch program

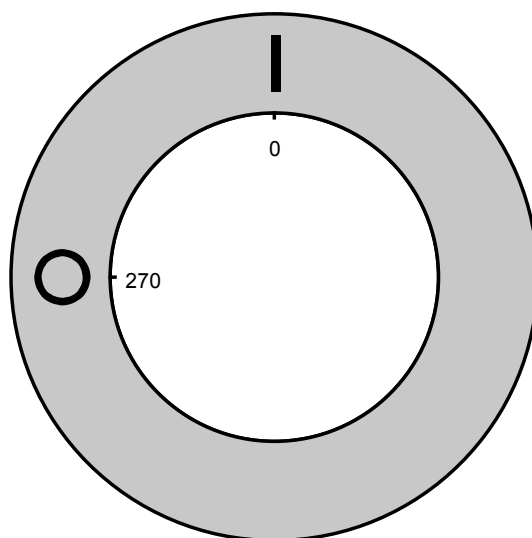
CA20.A291.PF1

|  Kraus & Naimer         |  | CA20                                                                              |   | A291 |   | Page 1 of 1 |    |    |    |    |    |    |    |
|----------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|---|------|---|-------------|----|----|----|----|----|----|----|
|                                                                                                          |  |                                                                                   |   |      |   |             |    |    |    |    |    |    |    |
| <b>Face Plate</b>                                                                                        |  |                                                                                   |   |      |   |             |    |    |    |    |    |    |    |
|                         |  | 1                                                                                 | 3 | 5    | 7 | 9           | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
|                                                                                                          |  |  |   |      |   |             |    |    |    |    |    |    |    |
| Switching Angle <input type="text" value="90"/><br>Total switching Angle <input type="text" value="90"/> |  | 2                                                                                 | 4 | 6    | 8 | 10          | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 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: 96

## Face plate

S1.F456/C10.V11H





Sample image

## PADLOCK DEVICE with F-handle ring

Designation: S1.V840G/A71/C1

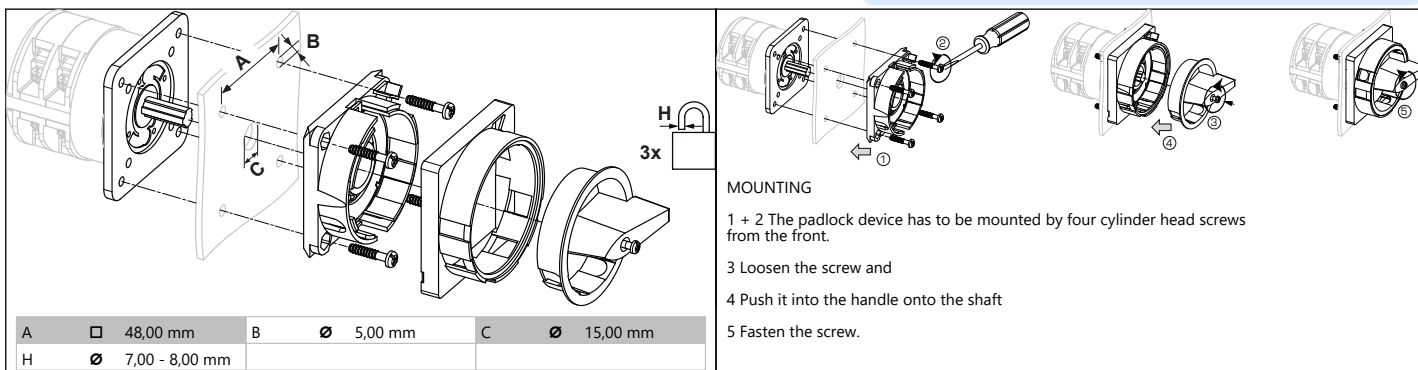
Colour of F-handle ring: "A" black

Colour of face ring: "7" electro-grey

Locking position: "1" at 09:00 (1x90°)

Type of mounting: "C" for type of mounting PN, PF, PFA-PFF

Switch type: "1" for C-switches and for KG10.



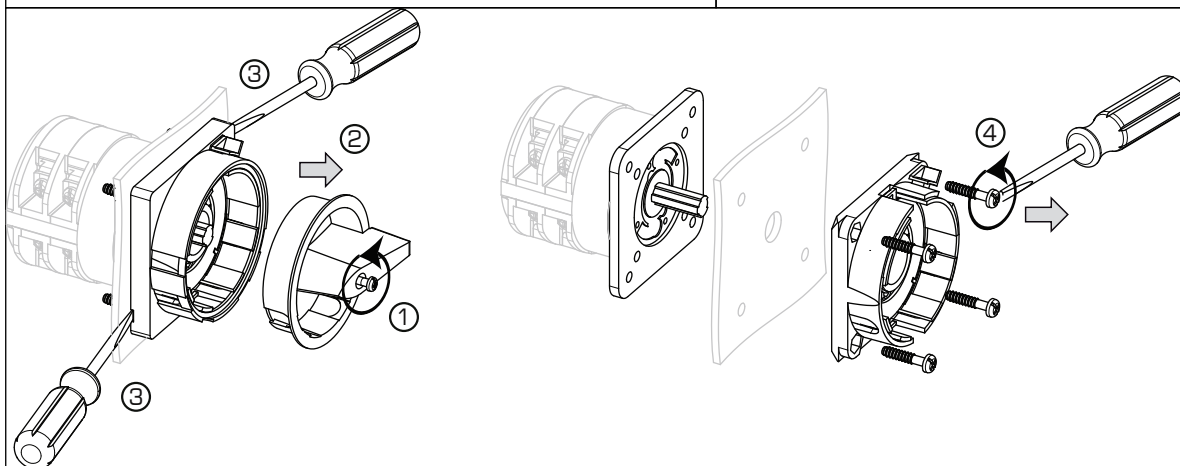
### MOUNTING

1 + 2 The padlock device has to be mounted by four cylinder head screws from the front.

3 Loosen the screw and

4 Push it into the handle onto the shaft

5 Fasten the screw.



1 Loose handle screw

2 remove handle.

3 Insert a proper auxiliary tool at those points of the frame of the device which are marked by a screw driver on the drawing and remove the frame.

4 Fixing screws can be loosen now.