



Sample image

## Datasheet

Article number: 70011686

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             |                                       |             |                                        |
| 定格連続通電電流 Iu/Ith                                                                                                                                                 |  |           |                         |                                       |             |                                        |
| Current (A)                                                                                                                                                     |  | 周囲温度 (°C) |                         | ピーク温度 (°C) 追加要求事項                     |             |                                        |
| 20                                                                                                                                                              |  | 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               |                                       | 6           |                                        |
| AC-15                                                                                                                                                           |  |           | 380 - 440               |                                       | 4           |                                        |
| 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                                      |
| AC-3                                                                                                                                                            |  | 380 - 440 |                         | 3                                     |             | 5,50                                   |
| AC-3                                                                                                                                                            |  | 660 - 690 |                         | 3                                     |             | 5,50                                   |
| AC-3                                                                                                                                                            |  | 220 - 240 |                         | 1                                     |             | 2,20                                   |
| AC-3                                                                                                                                                            |  | 380 - 440 |                         | 1                                     |             | 3                                      |
| AC-23A                                                                                                                                                          |  | 220 - 240 |                         | 3                                     |             | 3,70                                   |
| AC-23A                                                                                                                                                          |  | 380 - 440 |                         | 3                                     |             | 7,50                                   |
| AC-23A                                                                                                                                                          |  | 660 - 690 |                         | 3                                     |             | 7,50                                   |
| AC-23A                                                                                                                                                          |  | 220 - 240 |                         | 1                                     |             | 2,50                                   |
| AC-23A                                                                                                                                                          |  | 380 - 440 |                         | 1                                     |             | 3,70                                   |
| 最大ヒューズ定格 IEC                                                                                                                                                    |  |           |                         |                                       |             |                                        |
| ヒューズ特性                                                                                                                                                          |  |           | ヒューズ数                   |                                       | Current (A) |                                        |
| gG                                                                                                                                                              |  |           | 1                       |                                       | 25          |                                        |
| 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            |                                       |             |                                        |
| 20                                                                                                                                                              |  |           | 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 0,50 40                              |
| DOL                                                                                                                                                             |  | 220 - 240 |                         | 1                                     |             | 2 1 40                                 |
| DOL                                                                                                                                                             |  | 277 - 277 |                         | 1                                     |             | 2 2 40                                 |
| DOL                                                                                                                                                             |  | 440 - 480 |                         | 1                                     |             | 2 2 40                                 |
| DOL                                                                                                                                                             |  | 550 - 600 |                         | 1                                     |             | 2 2 40                                 |
| DOL                                                                                                                                                             |  | 110 - 120 |                         | 3                                     |             | 3 1,50 40                              |
| DOL                                                                                                                                                             |  | 220 - 240 |                         | 3                                     |             | 3 3 40                                 |
| DOL                                                                                                                                                             |  | 440 - 480 |                         | 3                                     |             | 3 5 40                                 |
| DOL                                                                                                                                                             |  | 550 - 600 |                         | 3                                     |             | 3 5 40                                 |
| Pilot duty rating code                                                                                                                                          |  |           |                         |                                       |             |                                        |
| Duty Code                                                                                                                                                       |  |           |                         |                                       |             |                                        |
| A600                                                                                                                                                            |  |           |                         |                                       |             |                                        |
| SCCR / Max. fuse rating                                                                                                                                         |  |           |                         |                                       |             |                                        |
| Conditions of acceptability                                                                                                                                     |  |           |                         |                                       |             |                                        |
| These devices are suitable for use on circuits capable of delivering not more than 5kA rms symmetrical amperes, 600V ac max. when protected by Class RK1 fuses. |  |           |                         |                                       |             |                                        |
| Temp. rating of wire                                                                                                                                            |  |           |                         |                                       |             |                                        |
| Temperature rating (°C)                                                                                                                                         |  |           | Current (A) Text        |                                       |             |                                        |
| 60 - 75                                                                                                                                                         |  |           | -- Use copper wire only |                                       |             |                                        |
| General Use                                                                                                                                                     |  |           |                         |                                       |             |                                        |
| AC / DC                                                                                                                                                         |  | 電圧 (V)    |                         | Current (A)                           |             | 相数 極数 No. of contacts in series        |
| AC                                                                                                                                                              |  | 277       |                         | 20                                    |             | 1 1 1                                  |
| AC                                                                                                                                                              |  | 600       |                         | 20                                    |             | 1 2 1                                  |

| General Use                            |           |                         |                |                                       |                           |            |
|----------------------------------------|-----------|-------------------------|----------------|---------------------------------------|---------------------------|------------|
| AC / DC                                | 電圧 (V)    | Current (A)             | 相数             | 極数                                    | No. of contacts in series |            |
| AC                                     | 600       | 20                      | 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              |            |
|                                        |           | 20                      |                |                                       | 0 - 40 --                 |            |
| Horsepower rating                      |           |                         |                |                                       |                           |            |
| Across-the-Line Motor Starting         |           |                         | 電圧 (V)         | 相数                                    | 極数                        | Power (HP) |
| DOL                                    |           |                         | 110 - 120      | 1                                     | 2                         | 0,50       |
| DOL                                    |           |                         | 220 - 240      | 1                                     | 2                         | 1          |
| DOL                                    |           |                         | 277 - 277      | 1                                     | 2                         | 2          |
| DOL                                    |           |                         | 440 - 480      | 1                                     | 2                         | 2          |
| DOL                                    |           |                         | 550 - 600      | 1                                     | 2                         | 2          |
| DOL                                    |           |                         | 110 - 120      | 3                                     | 3                         | 1,50       |
| DOL                                    |           |                         | 220 - 240      | 3                                     | 3                         | 3          |
| DOL                                    |           |                         | 440 - 480      | 3                                     | 3                         | 5          |
| DOL                                    |           |                         | 550 - 600      | 3                                     | 3                         | 5          |
| Pilot duty rating code                 |           |                         |                |                                       |                           |            |
| Duty Code                              |           |                         |                |                                       |                           |            |
| A600                                   |           |                         |                |                                       |                           |            |
| Temp. rating of wire                   |           |                         |                |                                       |                           |            |
|                                        |           | Temperature rating (°C) |                |                                       | Current (A)               | Text       |
|                                        |           | 75                      |                |                                       | --                        | --         |
| General Use                            |           |                         |                |                                       |                           |            |
| AC / DC                                | 電圧 (V)    | Current (A)             | 相数             | 極数                                    | No. of contacts in series |            |
| AC                                     | 277       | 20                      | 1              | 1                                     | 1                         |            |
| AC                                     | 600       | 20                      | 1              | 2                                     | 1                         |            |
| AC                                     | 600       | 20                      | 3              | 3                                     | 1                         |            |
| GENERAL TECHNICAL INFORMATION          |           |                         |                |                                       |                           |            |
| 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 (mm <sup>2</sup> ) or (AWG/kcmil) | 電線材料                      |            |
| 単線                                     | 最小        | 1                       |                | 0.75mm <sup>2</sup>                   | 銅                         |            |
| 単線                                     | 最小        | 2                       |                | 0.75mm <sup>2</sup>                   | 銅                         |            |
| 細撚線                                    | 最小        | 1                       |                | 0.75mm <sup>2</sup>                   | 銅                         |            |
| 細撚線                                    | 最小        | 2                       |                | 0.75mm <sup>2</sup>                   | 銅                         |            |
| 細撚線                                    | 最大        | 2                       |                | AWG 12                                | 銅                         |            |
| 細撚線                                    | 最大        | 2                       |                | 2.5mm <sup>2</sup>                    | 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                       |                | 4mm <sup>2</sup>                      | 銅                         |            |
| DIN46228規格フェール適用の細撚線                   | 最小        | 1                       |                | 0.75mm <sup>2</sup>                   | 銅                         |            |
| DIN46228規格フェール適用の細撚線                   | 最小        | 2                       |                | 0.75mm <sup>2</sup>                   | 銅                         |            |
| DIN46228規格フェール適用の細撚線                   | 最大        | 2                       |                | 2.5mm <sup>2</sup>                    | 銅                         |            |
| 認証                                     |           |                         |                |                                       |                           |            |
| 仕様                                     |           |                         |                |                                       |                           |            |
| マーキング                                  |           |                         |                |                                       |                           |            |
| EAC                                    |           |                         |                |                                       |                           |            |
| CEマーキング                                |           |                         |                |                                       |                           |            |
| UK Directives                          |           |                         |                |                                       |                           |            |
| CSA C.22.2 No.14                       |           |                         |                |                                       |                           |            |
| GB/T14048.3                            |           |                         |                |                                       |                           |            |
| Recommended screw driver               |           |                         |                |                                       |                           |            |
| Type of screw driver                   |           |                         |                | Value                                 |                           |            |
| Cross Screwdriver                      |           |                         |                | PH1                                   |                           |            |
| Slot screwdriver according to DIN 5264 |           |                         |                | 0,8x4                                 |                           |            |
| 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。       |           |                         |                |                                       |                           |            |

## 注意事項

### 備考

- 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りません。

### 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

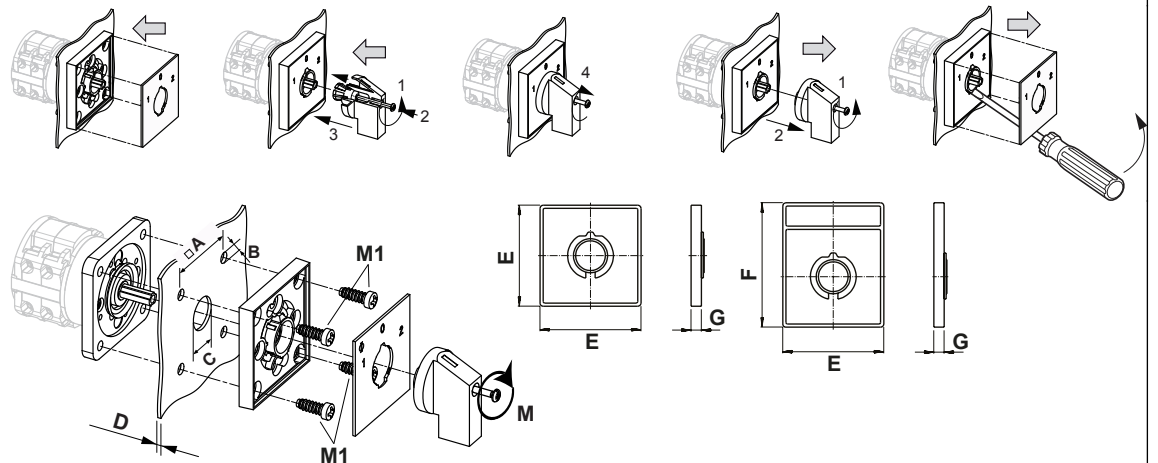
| Picture name                                                                     | Description                                                                                                                                                                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | 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-EF



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

## Wiring diagram

CH10.A220.EF



## Switch program

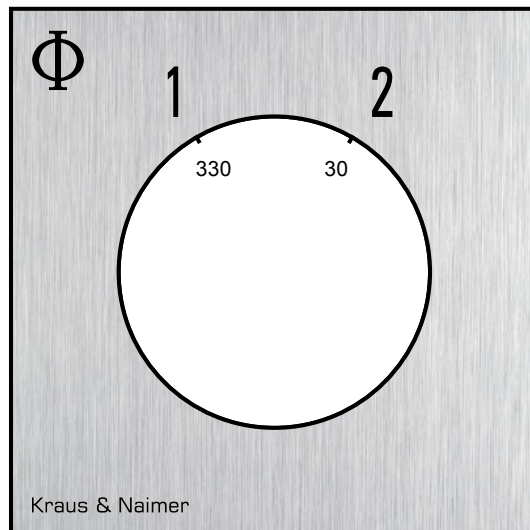
CH10.A220.EF

|  Kraus & Naimer         |  | CH10                                                                              |   | A220 |   | Page 1 of 1 |    |    |    |    |    |    |    |
|----------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|---|------|---|-------------|----|----|----|----|----|----|----|
|                                                                                                          |  |                                                                                   |   |      |   |             |    |    |    |    |    |    |    |
| <b>Face Plate</b><br>   |  |  |   |      |   |             |    |    |    |    |    |    |    |
| Switching Angle <input type="text" value="60"/><br>Total switching Angle <input type="text" value="60"/> |  | 1                                                                                 | 3 | 5    | 7 | 9           | 11 | 13 | 15 | 17 | 19 | 21 | 23 |
|                                                                                                          |  | 2                                                                                 | 4 | 6    | 8 | 10          | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| 1                                                                                                        |  | 330                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 345                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 0                                                                                 |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 15                                                                                |   |      |   |             |    |    |    |    |    |    |    |
| 2                                                                                                        |  | 30                                                                                |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 45                                                                                |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 60                                                                                |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 75                                                                                |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 90                                                                                |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 105                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 120                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 135                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 150                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 165                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 180                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 195                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 210                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 225                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 240                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 255                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 270                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 285                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 300                                                                               |   |      |   |             |    |    |    |    |    |    |    |
|                                                                                                          |  | 315                                                                               |   |      |   |             |    |    |    |    |    |    |    |

Version: 106

## Face plate

S0.F072/A1B.PEL



## HANDLES

Designation: S0C.G251

Handle colour: "1" black

