



Figure similar

SWITCH DISCONNECTOR 3VA1 IEC FRAME 160 4-  
POLE SD100, IN=63A WITHOUT OVERLOAD  
PROTECTION WITHOUT SHORT CIRCUIT PROT.  
BUSBAR CONNECTION

| Model   |    |                      |
|---|----|----------------------|
| product brand name  |    | SENTRON              |
| Product designation   |    | Switch disconnecter  |
| Design of the product   |    | in MCCB design       |
| Product variations  |    | General applications |
| Design of the operating mechanism   |    | toggle handle        |
| Type of the driving mechanism / motor drive   |    | No                   |
| General technical data  |    |                      |
| Number of poles   |    | 4                    |
| Type of device  |    | fixed mounting       |
| power factor cos phi / in utilization category / AC-22<br>A                             |    |                      |
| • at 400 V  |    | 0.8                  |
| circuit-breaker / Design  |    | 3VA                  |
| Mechanical service life (switching cycles) / typical                                    |    | 15 000               |
| Reference code / acc. to DIN 40719 extended<br>according to IEC 204-2 / acc. to IEC 750 |    | Q                    |
| Overvoltage category  |    | IV                   |
| Voltage   |    |                      |
| Insulation voltage  |    |                      |
| • Rated value   | V  | 800                  |
| Surge voltage resistance  |    |                      |
| • Rated value   | kV | 8                    |
| Protection class  |    |                      |

|   |    |       |
|---|----|-------|
| Protection class IP                                 |    | IP40  |
| Dissipation   |    |       |
| Active power loss                                   |    |       |
| • maximum   | W  | 30    |
| Electricity   |    |       |
| Continuous current                                  |    |       |
| • Rated value                                       | A  | 63    |
| • at 40 °C / Rated value                            | A  | 63    |
| • at 45 °C / Rated value                            | A  | 63    |
| • at 50 °C / Rated value                            | A  | 63    |
| • at 55 °C / Rated value                            | A  | 63    |
| • at 60 °C / Rated value                            | A  | 63    |
| • at 65 °C / Rated value                            | A  | 63    |
| • at 70 °C / Rated value                            | A  | 63    |
| Short-time current resistance (I <sub>cw</sub> )    |    |       |
| • restricted to 0.5 s / Rated value                 | kA | 2     |
| • limited to 1 s / Rated value                      | kA | 2     |
| Net weight  | g  | 1 100 |
| Main circuit  |    |       |
| Operating power                                     |    |       |
| • at AC-23 A / at 400 V / at 50/60 Hz / Rated value | kW | 42.84 |
| • at AC-3 / at 400 V / Rated value                  | kW | 42.84 |
| Operating voltage                                   |    |       |
| • with AC / at 50/60 Hz / Rated value               | V  | 690   |
| • for DC / Rated value                              | V  | 600   |
| Auxiliary circuit                                   |    |       |
| Number of CO contacts                               |    |       |
| • for auxiliary contacts                            |    | 0     |
| Number of NC contacts                               |    |       |
| • for auxiliary contacts                            |    | 0     |
| Number of NO contacts                               |    |       |
| • for auxiliary contacts                            |    | 0     |
| Suitability   |    |       |
| Suitability for use                                 |    |       |
| • Main switch                                       |    | Yes   |
| • switch disconnecter                               |    | Yes   |
| • EMERGENCY OFF switch                              |    | Yes   |
| • safety switch                                     |    | Yes   |
| • maintenance/repair switch                         |    | Yes   |

|  |    |                   |
|--|----|-------------------|
| Appearance   |    |                   |
| Product details  |    |                   |
| <b>Product feature</b>                                   |    |                   |
| • interlock  |    | No                |
| <b>Product component</b>                                 |    |                   |
| • Trip indicator   |    | No                |
| • Voltage trigger  |    | No                |
| • undervoltage release                                   |    | No                |
| • undervoltage release with leading contact              |    | No                |
| <b>Product expansion</b>                                 |    |                   |
| • Auxiliary switch                                       |    | Yes               |
| • optional   |    |                   |
| — motor drive  |    | Yes               |
| — Voltage trigger  |    | Yes               |
| Product function   |    |                   |
| <b>Product function</b>                                  |    |                   |
| • communication function                                 |    | No                |
| Display and operation                                    |    |                   |
| <b>Display version</b>                                   |    |                   |
| • for switch position indicator                          |    | Yes               |
| Short circuit  |    |                   |
| <b>Conditional short-circuit current (I<sub>q</sub>)</b> |    |                   |
| • Rated value  | A  | 2 000             |
| Connections  |    |                   |
| <b>Arrangement of electrical connectors</b>              |    |                   |
| • for main current circuit                               |    | Front terminal    |
| <b>Design of the electrical connection</b>               |    |                   |
| • for main current circuit                               |    | busbar connection |
| Mechanical Design  |    |                   |
| <b>Height</b>  | mm | 130               |
| <b>Width</b>   | mm | 101.6             |
| <b>Depth</b>   | mm | 70                |
| <b>mounting position</b>                                 |    | any               |
| <b>Mounting type</b>                                     |    | screw fixing      |
| <b>Mounting type</b>                                     |    |                   |
| • front mounting with 4-hole attachment                  |    | Yes               |
| • front mounting with central attachment                 |    | No                |
| • rail mounting  |    | No                |
| Environmental conditions                                 |    |                   |

#### Ambient temperature

- during operation / minimum
- during operation / maximum
- during storage / minimum
- during storage / maximum

|    |     |
|----|-----|
| °C | -25 |
| °C | 70  |
| °C | -40 |
| °C | 80  |

#### Certificates

##### Reference code

- acc. to DIN EN 61346-2

Q

| General Product Approval | EMC | Declaration of Conformity | Shipping Approval | other |
|--------------------------|-----|---------------------------|-------------------|-------|
|--------------------------|-----|---------------------------|-------------------|-------|



[other](#)



GL

[other](#)

#### Further information

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11631AA420AA0>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3VA11631AA420AA0/all>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA11631AA420AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11631AA420AA0)

##### CAX-Online-Generator

<http://www.siemens.com/cax>

##### Tender specifications

<http://ausschreibungstexte.siemens.com/tiplv>

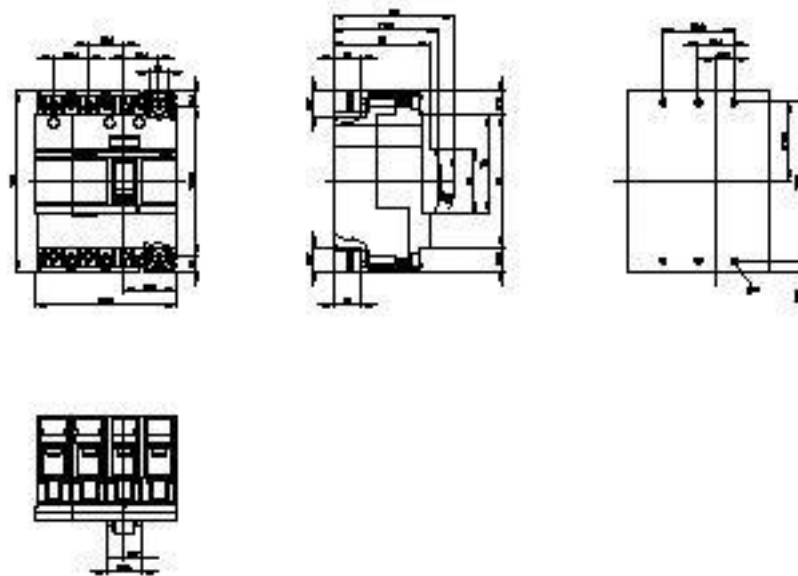


Figure similar

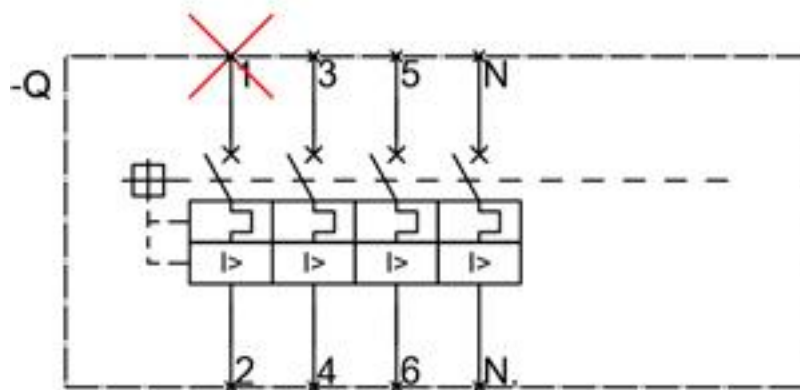


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