



Figure similar

SWITCH DISCONNECTOR 3VA1 IEC FRAME 160 4-  
POLE SD100, IN=63A WITHOUT OVERLOAD  
PROTECTION WITHOUT SHORT CIRCUIT PROT.  
CABLE 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               |
| Equipment marking / 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                 |
| Protection class IP / on the front                                                         |    | IP40                 |
| Dissipation                                                                                |    |                      |

|                                                       |    |       |
|-------------------------------------------------------|----|-------|
| <b>Active power loss</b>                              |    |       |
| • maximum                                             | W  | 30    |
| <b>Electricity</b>                                    |    |       |
| <b>Continuous current</b>                             |    |       |
| • 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    |
| <b>Short-time current resistance (I<sub>cw</sub>)</b> |    |       |
| • restricted to 0.5 s / Rated value                   | kA | 2     |
| • limited to 1 s / Rated value                        | kA | 2     |
| <b>Main circuit</b>                                   |    |       |
| <b>Operating power</b>                                |    |       |
| • 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 |
| <b>Operating voltage</b>                              |    |       |
| • with AC / at 50/60 Hz / Rated value                 | V  | 690   |
| • for DC / Rated value                                | V  | 600   |
| <b>Auxiliary circuit</b>                              |    |       |
| Number of CO contacts / for auxiliary contacts        |    | 0     |
| Number of NC contacts / for auxiliary contacts        |    | 0     |
| Number of NO contacts / for auxiliary contacts        |    | 0     |
| <b>Suitability</b>                                    |    |       |
| <b>Suitability for use</b>                            |    |       |
| • Main switch                                         |    | Yes   |
| • switch disconnecter                                 |    | Yes   |
| • EMERGENCY OFF switch                                |    | Yes   |
| • safety switch                                       |    | Yes   |
| • maintenance/repair switch                           |    | Yes   |
| <b>Product details</b>                                |    |       |
| Product feature / 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                 |
| <b>Product function</b>                                           |    |                     |
| Product function / communication function                         |    | No                  |
| <b>Display and operation</b>                                      |    |                     |
| Display version / for switch position indicator                   |    | Yes                 |
| <b>Short circuit</b>                                              |    |                     |
| Conditional short-circuit current (I <sub>q</sub> ) / Rated value | A  | 2 000               |
| <b>Connections</b>                                                |    |                     |
| Arrangement of electrical connectors / for main current circuit   |    | Front terminal      |
| Type of electrical connection / for main current circuit          |    | Terminal connection |
| <b>Mechanical Design</b>                                          |    |                     |
| Height                                                            | mm | 130                 |
| Width                                                             | mm | 101.6               |
| Depth                                                             | mm | 70                  |
| mounting position                                                 |    | any                 |
| Mounting type                                                     |    | screw fixing        |
| Mounting type                                                     |    |                     |
| • front mounting with 4-hole attachment                           |    | Yes                 |
| • front mounting with central attachment                          |    | No                  |
| • rail mounting                                                   |    | No                  |
| Net weight                                                        | g  | 1 100               |
| <b>Environmental conditions</b>                                   |    |                     |
| Ambient temperature                                               |    |                     |
| • during operation / minimum                                      | °C | -25                 |
| • during operation / maximum                                      | °C | 70                  |
| • during storage / minimum                                        | °C | -40                 |
| • during storage / maximum                                        | °C | 80                  |
| <b>Certificates</b>                                               |    |                     |
| Equipment marking / acc. to DIN EN 61346-2                        |    | Q                   |

| General Product Approval                                                                 | EMC                                                                                                        | Declaration of Conformity                                                                     | Shipping Approval                                                                          |                                                                                           |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <br>CCC | <br><a href="#">other</a> | <br>EG-Konf. | <br>DNV | <br>GL |

| Shipping Approval                                                                        | other                 |
|------------------------------------------------------------------------------------------|-----------------------|
| <br>LRS | <a href="#">other</a> |

#### 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/3VA11631AA460AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA11631AA460AA0/all>

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

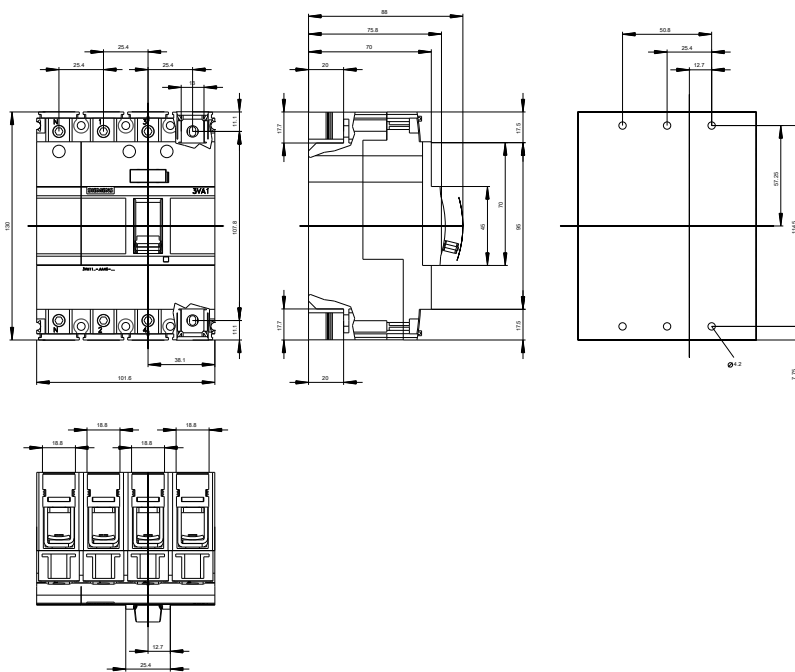
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA11631AA460AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11631AA460AA0)

##### CAX-Online-Generator

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

##### Tender specifications

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



**last modified:**

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