



CIRCUIT BREAKER 230V 10KA, 1+N-POLE, B, 50A, D=70MM

Similar to image

| Technical data:                                          |    |                       |
|----------------------------------------------------------|----|-----------------------|
| Type of mounting                                         |    | Quick assembly system |
| type of voltage                                          |    | AC/DC                 |
| Height                                                   | mm | 90                    |
| Width                                                    | mm | 36                    |
| Depth                                                    | mm | 76                    |
| mounting position                                        |    | any                   |
| Mounting depth                                           | mm | 70                    |
| Current / for AC / rated value                           | A  | 50                    |
| Tripping characteristic class                            |    | B                     |
| Supply voltage                                           |    |                       |
| • for AC / rated value                                   | V  | 230                   |
| • with single-phase operation / with AC / rated value    | V  | 230                   |
| Switching capacity current                               |    |                       |
| • in accordance with IEC 60947-2 / rated value           | kA | 15                    |
| • with DC / in accordance with IEC 60947-2 / rated value | kA | 15                    |
| • acc. to EN 60898 / rated value                         | kA | 10                    |
| Breaking capacity short-circuit current (Icn)            |    |                       |
| • with DC / in accordance with EN 60898-2                | kA | 10                    |

|                                                                                                                       |                                                       |                                           |
|-----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------|
| • with AC / in accordance with UL 1077 and CSA C22.2 No.235                                                           | kA                                                    | 5                                         |
| <b>Active power loss / at rated value current / with AC / in warm operating state / per pole</b>                      | W                                                     | 1.9                                       |
| <b>Number of pitch units for width</b>                                                                                |                                                       | 2                                         |
| <b>Product feature / sealable</b>                                                                                     |                                                       | Yes                                       |
| <b>Degree of pollution</b>                                                                                            |                                                       | 3                                         |
| <b>Ambient temperature</b>                                                                                            | °C                                                    | -25 ... +55                               |
| <b>Ambient temperature</b><br>• during storage                                                                        | °C                                                    | -40 ... +75                               |
| <b>Position / of power supply cord</b>                                                                                |                                                       | Any                                       |
| <b>Product property / properties for main switches in accordance with EN 60204-1</b>                                  |                                                       | Yes                                       |
| <b>Mechanical operating cycles as operating time / typical</b>                                                        |                                                       | 20,000                                    |
| <b>Overvoltage class</b>                                                                                              |                                                       | 3                                         |
| <b>Product equipment / touch-protection</b>                                                                           |                                                       | Yes                                       |
| <b>Resistance against shock / according to IEC 60068-2-27</b>                                                         |                                                       | 150m/s <sup>2</sup> at 11ms half-sine     |
| <b>Insulation voltage</b><br>• with single-phase operation / with AC / rated value                                    | V                                                     | 250                                       |
| <b>AWG number</b><br>• as encoded connectable conductor cross-section                                                 |                                                       | 14 ... 4                                  |
| <b>Section de conducteur raccordable</b><br>• solid<br>• multibrin<br>• finely stranded<br>• with wire end processing | mm <sup>2</sup><br>mm <sup>2</sup><br>mm <sup>2</sup> | 0.75 ... 35<br>0.75 ... 35<br>0.75 ... 25 |
| <b>Product component</b><br>• combined terminal top<br>• combined terminal bottom                                     |                                                       | Yes<br>Yes                                |
| <b>Tightening torque</b><br>• with screw-type terminals                                                               | N·m                                                   | 2.5 ... 3                                 |
| <b>Tightening torque (lbf·in)</b><br>• with screw connection                                                          | lbf·in                                                | 22 ... 26                                 |
| <b>Product feature</b><br>• [not supplied - silicon-free]<br>• halogen-free                                           |                                                       | Yes<br>Yes                                |
| <b>Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30</b>                          |                                                       | 6                                         |
| <b>Item designation / according to DIN EN 61346-2</b>                                                                 |                                                       | F                                         |

Certificates/approvals:

## General Product Approval



CCC



GOST



IMQ



UL



VDE

## Shipping Approval

other



DNV



GL



LRS



RINA

[other](#)

## Further information:

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

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

### Industry Mall (Online ordering system)

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

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

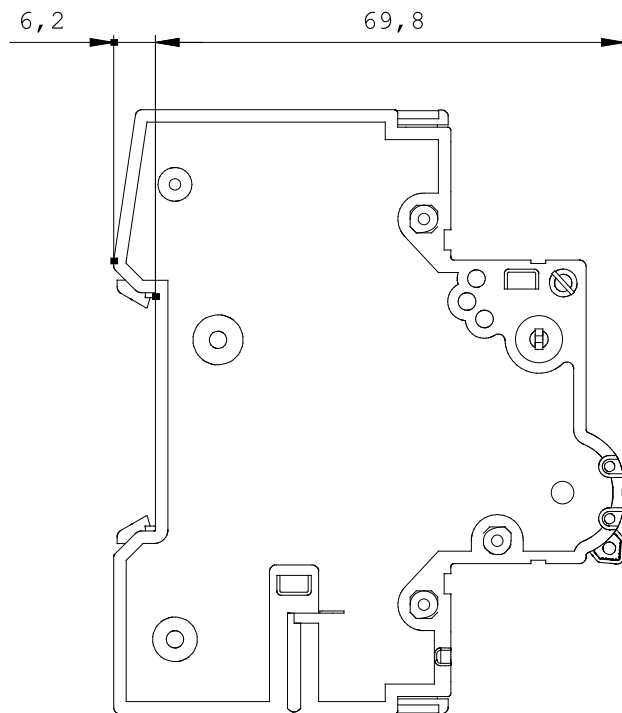
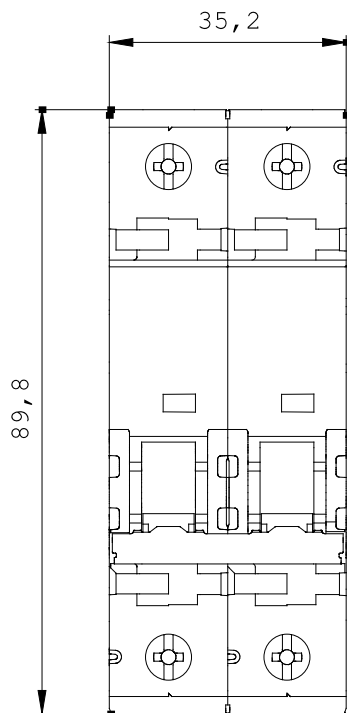
<http://support.automation.siemens.com/WW/view/en/5SY4550-6/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY4550-6](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4550-6)

### CAX-Online-Generator

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



last change:

Dec 31, 2012