



Miniature circuit breaker 230 V 6kA, 1+N-pole C, 0.3 A, D=70 mm

| Model                                                                               |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
| product brand name                                                                  | SENTRON                           |
| product designation                                                                 | Miniature circuit breaker         |
| General technical data                                                              |                                   |
| number of poles                                                                     | 2                                 |
| design of pole                                                                      | 1P+N                              |
| tripping characteristic class                                                       | C                                 |
| mechanical service life (switching cycles) typical                                  | 10 000                            |
| overvoltage category                                                                | III                               |
| degree of pollution                                                                 | 3                                 |
| Voltage                                                                             |                                   |
| type of voltage of the operating voltage                                            | AC                                |
| insulation voltage (Ui)                                                             |                                   |
| • with single-phase operation at AC rated value                                     | 250 V                             |
| supply voltage with single-phase operation at AC rated value                        | 230 V                             |
| Supply voltage                                                                      |                                   |
| supply voltage                                                                      |                                   |
| • at AC rated value                                                                 | 230 V                             |
| value range of the supply voltage frequency                                         | 50/60 Hz                          |
| Protection class                                                                    |                                   |
| protection class IP                                                                 | IP20, with connected conductors   |
| Switching capacity                                                                  |                                   |
| switching capacity current                                                          |                                   |
| • at DC according to IEC 60947-2 rated value                                        | 15 kA                             |
| • according to EN 60898 rated value                                                 | 6 kA                              |
| • according to IEC 60947-2 rated value                                              | 30 kA                             |
| energy limitation class                                                             | 3                                 |
| Dissipation                                                                         |                                   |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 0.9 W                             |
| Current                                                                             |                                   |
| operational current                                                                 |                                   |
| • at 35 °C rated value                                                              | 0.3 A                             |
| • at 40 °C rated value                                                              | 0.28 A                            |
| • at 45 °C rated value                                                              | 0.27 A                            |
| • at 50 °C rated value                                                              | 0.26 A                            |
| • at 55 °C rated value                                                              | 0.25 A                            |
| • at AC rated value                                                                 | 0.3 A                             |
| suitability for operation                                                           | Mechanical engineering / industry |

| Product details                                                              |                                                      |
|------------------------------------------------------------------------------|------------------------------------------------------|
| product component                                                            |                                                      |
| • combined terminal top                                                      | Yes                                                  |
| • combined terminal bottom                                                   | Yes                                                  |
| • neutral conductor switching                                                | Yes                                                  |
| product feature                                                              |                                                      |
| • properties for main switches in accordance with EN 60204-1                 | Yes                                                  |
| • halogen-free                                                               | Yes                                                  |
| • sealable                                                                   | Yes                                                  |
| • silicon-free                                                               | Yes                                                  |
| product extension installable supplementary devices                          | Yes                                                  |
| Short circuit                                                                |                                                      |
| breaking capacity short-circuit current (I <sub>cn</sub> )                   |                                                      |
| • at AC according to UL 1077 and CSA C22.2 No.235                            | 5 kA                                                 |
| Connections                                                                  |                                                      |
| connectable conductor cross-section solid                                    |                                                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup>                                 |
| • maximum                                                                    | 35 mm <sup>2</sup>                                   |
| connectable conductor cross-section stranded                                 |                                                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup>                                 |
| • maximum                                                                    | 35 mm <sup>2</sup>                                   |
| connectable conductor cross-section finely stranded with core end processing |                                                      |
| • minimum                                                                    | 0.75 mm <sup>2</sup>                                 |
| • maximum                                                                    | 25 mm <sup>2</sup>                                   |
| AWG number as coded connectable conductor cross section                      |                                                      |
| • minimum                                                                    | 18                                                   |
| • maximum                                                                    | 4                                                    |
| tightening torque [lbf-in] with screw-type terminals                         |                                                      |
| • minimum                                                                    | 22 lbf-in                                            |
| • maximum                                                                    | 31 lbf-in                                            |
| tightening torque with screw-type terminals                                  |                                                      |
| • minimum                                                                    | 2.5 N-m                                              |
| • maximum                                                                    | 3.5 N-m                                              |
| position of power supply cord                                                | Any                                                  |
| Mechanical Design                                                            |                                                      |
| height                                                                       | 90 mm                                                |
| width                                                                        | 36 mm                                                |
| depth                                                                        | 76 mm                                                |
| installation depth                                                           | 70 mm                                                |
| number of modular width units                                                | 2                                                    |
| fastening method                                                             | Quick assembly system                                |
| mounting position                                                            | any                                                  |
| net weight                                                                   | 328 g                                                |
| Environmental conditions                                                     |                                                      |
| influence of the surrounding temperature                                     | max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C |
| standard                                                                     | IEC / EN 60898-1, IEC / EN 60947-2 / UL1077          |
| vibration resistance according to IEC 60068-2-6                              | ±1mm at 5 to 25Hz; 50m/s <sup>2</sup> at 25 to 150Hz |
| ambient temperature during operation                                         |                                                      |
| • minimum                                                                    | -25 °C                                               |
| • maximum                                                                    | 55 °C                                                |
| ambient temperature during storage                                           |                                                      |
| • minimum                                                                    | -40 °C                                               |
| • maximum                                                                    | 75 °C                                                |
| number of test cycles for environmental testing according to IEC 60068-2-30  | 6                                                    |
| Certificates                                                                 |                                                      |
| reference code                                                               |                                                      |
| • according to EN 61346-2                                                    | F                                                    |
| • according to IEC 81346-2                                                   | F                                                    |
| General Product Approval                                                     |                                                      |

[Confirmation](#)



[Miscellaneous](#)

| General Product Approval | EMC | Declaration of Conformity | Test Certificates |
|--------------------------|-----|---------------------------|-------------------|
|--------------------------|-----|---------------------------|-------------------|



[Miscellaneous](#)



EG-Konf.



[Miscellaneous](#)

| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



LRS



[Miscellaneous](#)

| other |
|-------|
|-------|

[Environmental Confirmations](#)

#### Further information

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SY6514-7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY6514-7>

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

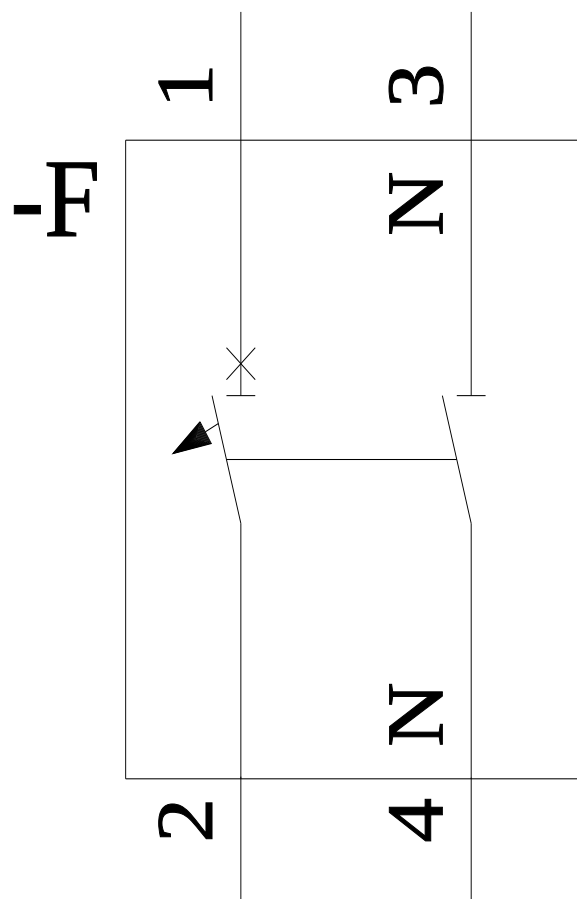
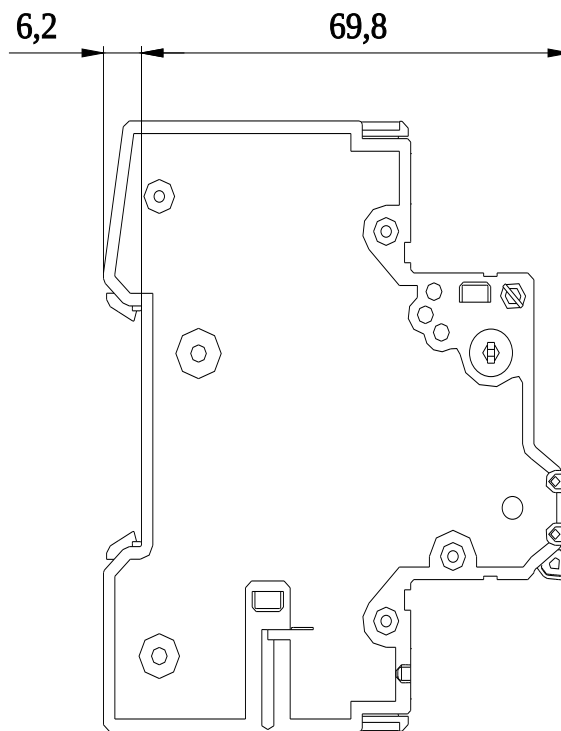
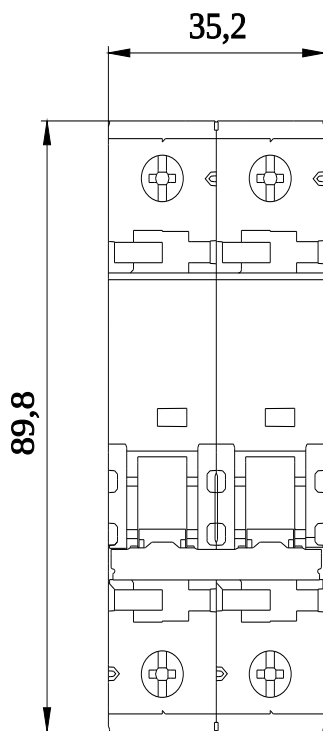
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY6514-7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6514-7)

CAX-Online-Generator

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

Tender specifications

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



# CB

