



Miniature circuit breaker 400 V 25kA, 2-pole, 12.5A, D=70 mm only magnetic tripping

| Model                                                                               |                                  |
|-------------------------------------------------------------------------------------|----------------------------------|
| product brand name                                                                  | SENTRON                          |
| product designation                                                                 | Miniature circuit breaker        |
| design of the product                                                               | Only magnetic tripping operation |
| General technical data                                                              |                                  |
| number of poles                                                                     | 2                                |
| design of pole                                                                      | 2P                               |
| tripping characteristic class                                                       | D                                |
| mechanical service life (operating 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                                     | 440 V                            |
| • with multi-phase operation at AC rated value                                      | 440 V                            |
| operational current                                                                 |                                  |
| • at AC rated value                                                                 | 12.5 A                           |
| Supply voltage                                                                      |                                  |
| supply voltage                                                                      |                                  |
| • at AC                                                                             | 400 V                            |
| value range of the supply voltage frequency                                         | 50/60 Hz                         |
| operating voltage at DC rated value maximum                                         | 72 V                             |
| Protection class                                                                    |                                  |
| protection class IP                                                                 | IP20, with connected conductors  |
| Breaking Capacity                                                                   |                                  |
| switching capacity current                                                          |                                  |
| • according to IEC 60947-2 rated value                                              | 25 kA                            |
| Dissipation                                                                         |                                  |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.4 W                            |
| suitability for operation                                                           | Infrastructure / Industry        |
| Product details                                                                     |                                  |
| product feature touch protection                                                    | Yes                              |
| product component                                                                   |                                  |
| • combined terminal top                                                             | Yes                              |
| • combined terminal bottom                                                          | Yes                              |
| • neutral conductor switching                                                       | No                               |
| product feature                                                                     |                                  |
| • properties for main switches in accordance with EN                                | Yes                              |

|                                                                              |                                          |             |
|------------------------------------------------------------------------------|------------------------------------------|-------------|
| 60204-1                                                                      |                                          |             |
| • halogen-free                                                               | Yes                                      |             |
| • sealable                                                                   | Yes                                      |             |
| • silicon-free                                                               | Yes                                      |             |
| product extension installable supplementary devices                          | Yes                                      |             |
| Product function                                                             |                                          |             |
| set values setting current (Ii) for I-tripping                               | 15                                       |             |
| reference value setting current (Ii) for I-tripping                          | x In                                     |             |
| Short circuit                                                                |                                          |             |
| short-circuit current breaking capacity (Icn)                                |                                          |             |
| • at AC according to UL 1077 and CSA C22.2 No.235                            | 5 kA                                     |             |
| Connections                                                                  |                                          |             |
| connectable conductor cross-section solid                                    |                                          |             |
| • minimum                                                                    | 0.75 mm²                                 |             |
| • maximum                                                                    | 35 mm²                                   |             |
| connectable conductor cross-section stranded                                 |                                          |             |
| • minimum                                                                    | 0.75 mm²                                 |             |
| • maximum                                                                    | 35 mm²                                   |             |
| connectable conductor cross-section finely stranded with core end processing |                                          |             |
| • minimum                                                                    | 0.75 mm²                                 |             |
| • maximum                                                                    | 25 mm²                                   |             |
| 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                                                             | DIN rail                                 |             |
| mounting position                                                            | any                                      |             |
| net weight                                                                   | 301 g                                    |             |
| Environmental conditions                                                     |                                          |             |
| vibration resistance according to IEC 60068-2-6                              | ±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz |             |
| ambient temperature during operation                                         |                                          |             |
| • minimum                                                                    | -25 °C                                   |             |
| • maximum                                                                    | 45 °C                                    |             |
| ambient temperature during storage                                           |                                          |             |
| • minimum                                                                    | -40 °C                                   |             |
| • maximum                                                                    | 75 °C                                    |             |
| number of test cycles for environmental testing according to IEC 60068-2-30  | 28                                       |             |
| Approvals Certificates                                                       |                                          |             |
| General Product Approval                                                     | other                                    | Environment |



[Miscellaneous](#)



[Confirmation](#)



Environment

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### 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=5SY8224-8BB08>

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

<https://support.industry.siemens.com/cs/ww/en/ps/5SY8224-8BB08>

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

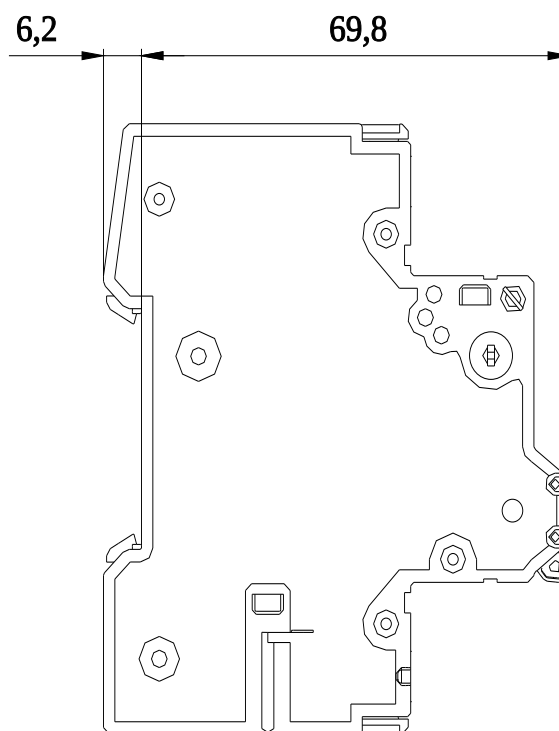
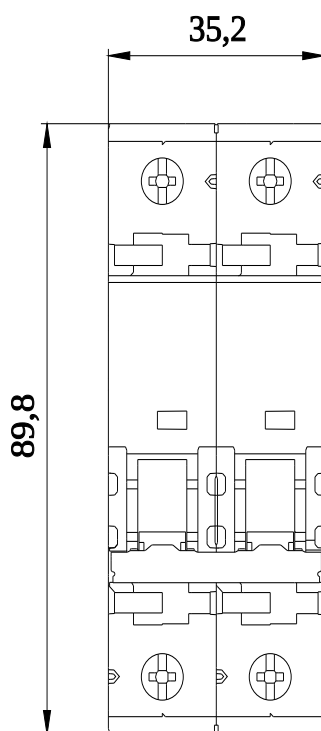
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=5SY8224-8BB08](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY8224-8BB08)

##### CAX-Online-Generator

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

##### Tender specifications

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





CB

