

fixed-mounted molded case circuit breaker w. handle frame 1600; 4AUX and trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 3-pole ETU350, LSI, In=1250A rotary coding switch Ir=500...1250A Isd=1...10xIn, li=1.5...15xIn N conductor protec. adjustable opt. w. ext. CT; up to 200% straight bus connector extended No communication connection, no measurement function With trip alarm switch TAS and trip alarm switch S25 With mechanical calling without 2nd auxiliary release With 1st auxiliary release, ST Shunt release 220-240 V AC/DC

| Model                                                                                       |                             |
|---------------------------------------------------------------------------------------------|-----------------------------|
| product brand name                                                                          | SENTRON                     |
| product designation                                                                         | Molded case circuit breaker |
| design of the product                                                                       | MCCB                        |
| design of the actuating element                                                             | toggel handle actuator      |
| type of the driving mechanism                                                               | manual operating mechanism  |
| type of the driving mechanism / motor drive                                                 | No                          |
| design of the overcurrent release                                                           | ETU350                      |
| General technical data                                                                      |                             |
| number of poles                                                                             | 3                           |
| size of the circuit-breaker                                                                 | 1600 A                      |
| mechanical service life (switching cycles) / typical                                        | 1 000                       |
| circuit-breaker / Design                                                                    | 3VA2                        |
| Voltage                                                                                     |                             |
| insulation voltage / rated value                                                            | 1 000 V                     |
| operating voltage / at AC / at 50/60 Hz / rated value                                       | 690 V                       |
| protection class IP                                                                         | IP20                        |
| protection class IP / on the front                                                          | IP20                        |
| protection function of the overcurrent release                                              | LSI                         |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 47 W                        |
| Current                                                                                     |                             |
| operational current                                                                         |                             |
| • at 40 °C / rated value                                                                    | 1 250 A                     |
| • at 45 °C / rated value                                                                    | 1 250 A                     |
| • at 50 °C / rated value                                                                    | 1 250 A                     |
| • at 55 °C / rated value                                                                    | 1 184 A                     |
| • at 60 °C / rated value                                                                    | 1 118 A                     |
| • at 65 °C / rated value                                                                    | 1 049 A                     |
| • at 70 °C / rated value                                                                    | 980 A                       |
| continuous current / rated value                                                            | 1 250 A                     |
| adjustable current response value current                                                   |                             |
| • of the current-dependent overload release / full-scale value                              | 1 250 A                     |
| • of instantaneous short-circuit trip unit / minimum                                        | 1 875 A                     |
| • of instantaneous short-circuit trip unit / maximum                                        | 18 750 A                    |
| short-time withstand current (Icw)                                                          |                             |
| • limited to 1 s / rated value                                                              | 20 kA                       |
| • at AC / at 415 V / limited to 0.5 s / rated value                                         | 20 kA                       |
| Auxiliary circuit                                                                           |                             |
| number of CO contacts / for auxiliary contacts                                              | 4                           |
| Suitability                                                                                 |                             |
| suitability for use                                                                         | system protection           |
| Adjustable parameters                                                                       |                             |
| adjustable current response value current                                                   |                             |

|                                                                                                                                                                                                   |                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| <ul style="list-style-type: none"> <li>• of the short-time delayed short-circuit release / initial value</li> <li>• of the short-time delayed short-circuit release / full-scale value</li> </ul> | 1 250 A                                          |
|                                                                                                                                                                                                   | 12 500 A                                         |
| adjustable current response value current / of the current-dependent overload release / initial value                                                                                             | 500 A                                            |
| product component                                                                                                                                                                                 |                                                  |
| <ul style="list-style-type: none"> <li>• trip indicator</li> <li>• voltage trigger</li> <li>• undervoltage release</li> </ul>                                                                     | Yes<br>Yes<br>No                                 |
| product extension / optional / motor drive                                                                                                                                                        | No                                               |
| <b>Product function</b>                                                                                                                                                                           |                                                  |
| product function                                                                                                                                                                                  |                                                  |
| <ul style="list-style-type: none"> <li>• grounding protection</li> </ul>                                                                                                                          | No                                               |
| <b>Display and operation</b>                                                                                                                                                                      |                                                  |
| display version                                                                                                                                                                                   | Without display                                  |
| <b>Short circuit</b>                                                                                                                                                                              |                                                  |
| breaking capacity operating short-circuit current (Ics)                                                                                                                                           |                                                  |
| <ul style="list-style-type: none"> <li>• at 415 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>                                                    | 55 kA<br>36 kA<br>25 kA                          |
| breaking capacity maximum short-circuit current (Icu)                                                                                                                                             |                                                  |
| <ul style="list-style-type: none"> <li>• at 415 V / rated value</li> <li>• at 440 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>                  | 55 kA<br>55 kA<br>36 kA<br>25 kA                 |
| <b>Connections</b>                                                                                                                                                                                |                                                  |
| arrangement of electrical connectors / for main current circuit                                                                                                                                   | Main connection at the front, extension enclosed |
| type of electrical connection / for main current circuit                                                                                                                                          | busbar connection                                |
| <b>Mechanical Design</b>                                                                                                                                                                          |                                                  |
| height                                                                                                                                                                                            | 296 mm                                           |
| width                                                                                                                                                                                             | 210 mm                                           |
| depth                                                                                                                                                                                             | 183 mm                                           |
| fastening method                                                                                                                                                                                  | fixed mounting                                   |
| net weight                                                                                                                                                                                        | 14 kg                                            |
| <b>Environmental conditions</b>                                                                                                                                                                   |                                                  |
| ambient temperature / during operation                                                                                                                                                            |                                                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                                    | -25 °C<br>70 °C                                  |
| ambient temperature / during storage                                                                                                                                                              |                                                  |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                                    | -40 °C<br>70 °C                                  |
| <b>General Product Approval</b>                                                                                                                                                                   |                                                  |
| <b>EMC</b>                                                                                                                                                                                        |                                                  |
| <b>Declaration of Conformity</b>                                                                                                                                                                  |                                                  |



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[UK Declaration of Conformity](#)

|                          |                          |              |
|--------------------------|--------------------------|--------------|
| <b>Test Certificates</b> | <b>Marine / Shipping</b> | <b>other</b> |
|--------------------------|--------------------------|--------------|

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|              |                       |
|--------------|-----------------------|
| <b>other</b> | <b>Dangerous Good</b> |
|--------------|-----------------------|

#### Further information

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-5AC05-1AA7>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-5AC05-1AA7>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2712-5AC05-1AA7](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-5AC05-1AA7)

**CAX-Online-Generator**

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

**Tender specifications**

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



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