



circuit breaker 3VA2 IEC Frame 1000 breaking capacity class H Icu=85 kA @ 415 V 3-pole, line protection ETU330, LIG, In=1000 A overload protection Ir=400 A...1000 A short-circuit protection Ii=1.5...10 x In ground-fault protection Ig=0.2...1 x In, tg=0.1/0.3s nut keeper kit

| Model                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                                                    | SENTRON                                 |
| product designation                                                                                   | Molded case circuit breaker             |
| design of the product                                                                                 | Line protection                         |
| design of the overcurrent release                                                                     | ETU330                                  |
| protection function of the overcurrent release                                                        | LIG                                     |
| number of poles                                                                                       | 3                                       |
| General technical data                                                                                |                                         |
| insulation voltage / rated value                                                                      | 800 V                                   |
| operating voltage / at AC / rated value                                                               | 690 V                                   |
| power loss [W] / maximum                                                                              | 330 W                                   |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 110 W                                   |
| mechanical service life (operating cycles) / typical                                                  | 10 000                                  |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 4 900                                   |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 3 400                                   |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                                      |
| ground-fault monitoring version                                                                       | Summation current formation L-conductor |
| product function                                                                                      |                                         |
| • communication function                                                                              | No                                      |
| • other measurement function                                                                          | No                                      |
| Net Weight                                                                                            | 14.202 kg                               |
| Current                                                                                               |                                         |
| operational current                                                                                   |                                         |
| • at 40 °C                                                                                            | 1 000 A                                 |
| • at 45 °C                                                                                            | 1 000 A                                 |
| • at 50 °C                                                                                            | 1 000 A                                 |
| • at 55 °C                                                                                            | 1 000 A                                 |
| • at 60 °C                                                                                            | 955 A                                   |
| • at 65 °C                                                                                            | 885 A                                   |
| • at 70 °C                                                                                            | 815 A                                   |
| Switching capacity according to IEC 60947                                                             |                                         |
| switching capacity class of the circuit breaker                                                       | H                                       |
| maximum short-circuit current breaking capacity (Icu)                                                 |                                         |
| • at 240 V                                                                                            | 110 kA                                  |
| • at 415 V                                                                                            | 85 kA                                   |
| • at 440 V                                                                                            | 85 kA                                   |
| • at 500 V                                                                                            | 55 kA                                   |
| • at 690 V                                                                                            | 35 kA                                   |
| operating short-circuit current breaking capacity (Ics)                                               |                                         |

|                                                                                                                                                                                                       |                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                          | 110 kA<br>85 kA<br>70 kA<br>55 kA<br>19 kA      |
| short-circuit current making capacity (I <sub>cm</sub> ) <ul style="list-style-type: none"> <li>• at 240 V</li> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul> | 242 kA<br>187 kA<br>187 kA<br>121 kA<br>73.5 kA |
| <b>Adjustable parameters</b>                                                                                                                                                                          |                                                 |
| product feature / for L-tripping / can be switched on/off                                                                                                                                             | No                                              |
| adjustable response value setting current (I <sub>r</sub> ) / of the L-trip / with I <sub>2t</sub> characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>      | 400 A<br>1 000 A                                |
| adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>          | 0.5 s<br>17 s                                   |
| adjustable response value setting current (I <sub>i</sub> ) / for I-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                           | 1 500 A<br>10 000 A                             |
| adjustable current response value current / for G-tripping / with standard characteristic <ul style="list-style-type: none"> <li>• initial value</li> <li>• full-scale value</li> </ul>               | 200 A<br>1 000 A                                |
| adjustable response value delay time (t <sub>g</sub> ) / for G-tripping / with I <sub>0t</sub> characteristic <ul style="list-style-type: none"> <li>• maximum</li> </ul>                             | 0.3 s                                           |
| adjustable setting current (I <sub>N</sub> ) / for N-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                          | 0 A<br>0 A                                      |
| product function / grounding protection                                                                                                                                                               | Yes                                             |
| <b>Mechanical Design</b>                                                                                                                                                                              |                                                 |
| product component <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• voltage trigger</li> <li>• trip indicator</li> </ul>                                                       | No<br>No<br>No                                  |
| height [in]                                                                                                                                                                                           | 12.6 in                                         |
| height                                                                                                                                                                                                | 320 mm                                          |
| width [in]                                                                                                                                                                                            | 8.27 in                                         |
| width                                                                                                                                                                                                 | 210 mm                                          |
| depth [in]                                                                                                                                                                                            | 4.72 in                                         |
| depth                                                                                                                                                                                                 | 120 mm                                          |
| <b>Connections</b>                                                                                                                                                                                    |                                                 |
| arrangement of electrical connectors / for main current circuit                                                                                                                                       | Front terminal                                  |
| type of electrical connection / for main current circuit                                                                                                                                              | on both sides nut keeper kit                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum                                                                                                             | 20 x 4 mm                                       |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum                                                                                                             | 50 x 28 mm                                      |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)                                                                                                                    | silver                                          |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)                                                                                                                 | silver                                          |
| <b>Auxiliary circuit</b>                                                                                                                                                                              |                                                 |
| number of CO contacts / for auxiliary contacts                                                                                                                                                        | 0                                               |
| <b>Accessories</b>                                                                                                                                                                                    |                                                 |
| product extension / optional / motor drive                                                                                                                                                            | No                                              |
| <b>Environmental conditions</b>                                                                                                                                                                       |                                                 |
| protection class IP / on the front                                                                                                                                                                    | IP40                                            |

|                                           |        |
|-------------------------------------------|--------|
| ambient temperature                       |        |
| • during operation / minimum              | -25 °C |
| • during operation / maximum              | 70 °C  |
| • during storage / minimum                | -40 °C |
| • during storage / maximum                | 80 °C  |
| reference code / according to IEC 81346-2 | Q      |

#### Approvals / Certificates

|                          |     |
|--------------------------|-----|
| General Product Approval | EMV |
|--------------------------|-----|



[Confirmation](#)



[Miscellaneous](#)



|                   |                   |
|-------------------|-------------------|
| Test Certificates | Marine / Shipping |
|-------------------|-------------------|

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Miscellaneous](#)



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



[CCS \(China Classification Society\)](#)

[Confirmation](#)

[Miscellaneous](#)

[Miscellaneous](#)

|                 |             |
|-----------------|-------------|
| Dangerous goods | Environment |
|-----------------|-------------|

[Transport Information](#)

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#### 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=3VA2510-6HM32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2510-6HM32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2510-6HM32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2510-6HM32-0AA0)

CAX-Online-Generator

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

Tender specifications

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





