



circuit breaker 3VA2 IEC Frame 1000 breaking capacity class C Icu=110 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  | 14.199 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   | C                                       |
| maximum short-circuit current breaking capacity (Icu)   |   |
| • at 240 V  | 200 kA                                  |
| • at 415 V  | 110 kA                                  |
| • at 440 V  | 110 kA                                  |
| • at 500 V  | 85 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>  | 150 kA<br>85 kA<br>70 kA<br>65 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> | 440 kA<br>242 kA<br>242 kA<br>187 kA<br>73.5 kA |

### Adjustable parameters

|  |                     |
|--|---------------------|
| 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>l</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>nN</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                 |

### Mechanical Design

|   |                |
|---|----------------|
| 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         |

### Connections

|   |                              |
|---|------------------------------|
| 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                       |

### Auxiliary circuit

|  |   |
|--|---|
| number of CO contacts / for auxiliary contacts | 0 |
|--|---|

### Accessories

|  |    |
|--|----|
| product extension / optional / motor drive | No |
|--|----|

### Environmental conditions

|                                    |      |
|------------------------------------|------|
| 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 |
|-------------------|-------------------|

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Miscellaneous](#)



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



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

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

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

[Transport Information](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

### 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=3VA2510-7HM32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2510-7HM32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2510-7HM32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2510-7HM32-0AA0)

CAX-Online-Generator

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

Tender specifications

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





