

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 100 breaking capacity class H Icu=85 kA @ 415 V  
4-pole, line protection ETU350, LSI, In=25 A overload protection Ir=10 A...25 A  
short-circuit protection I<sub>sd</sub>=1.5...10 x I<sub>r</sub>, I<sub>i</sub>=12 x I<sub>n</sub> neutral conductor protection  
adjustable (OFF, 100%) terminal connection



| Model   |                             |
|---|-----------------------------|
| product brand name  | SENTRON                     |
| product designation   | Molded case circuit breaker |
| design of the product   | Line protection             |
| design of the overcurrent release   | ETU350                      |
| protection function of the overcurrent release  | LSI                         |
| number of poles   | 4                           |
| General technical data  |                             |
| insulation voltage / rated value  | 800 V                       |
| operating voltage / at AC / rated value   | 690 V                       |
| power loss [W] / maximum  | 0.84 W                      |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 0.28 W                      |
| mechanical service life (operating cycles) / typical  | 25 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 15 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V  | 10 500                      |
| product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof | No                          |
| ground-fault monitoring version   | Without                     |
| product function  |                             |
| • communication function  | No                          |
| • other measurement function  | No                          |
| Net Weight  | 3.2 kg                      |
| Current   |                             |
| operational current   |                             |
| • at 40 °C  | 25 A                        |
| • at 45 °C  | 25 A                        |
| • at 50 °C  | 25 A                        |
| • at 55 °C  | 25 A                        |
| • at 60 °C  | 25 A                        |
| • at 65 °C  | 25 A                        |
| • at 70 °C  | 25 A                        |
| Switching capacity according to IEC 60947   |                             |
| switching capacity class of the circuit breaker   | H                           |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                    |                             |
| • at 240 V  | 110 kA                      |
| • at 415 V  | 85 kA                       |
| • at 440 V  | 85 kA                       |

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>• at 500 V</li> <li>• at 690 V</li> </ul>   | 55 kA<br>2 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>85 kA<br>55 kA<br>2 kA    |
| short-circuit current making capacity (Icm) <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>3 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> | 10 A<br>25 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>sd</sub> ) / of S-trip / with I <sub>2t</sub> characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>    | 37 A<br>250 A        |
| adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>    | 0.0001 s<br>0.4 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>                                      | 300 A<br>300 A       |
| adjustable setting current (I <sub>nN</sub> ) / for N-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>  | 25 A<br>25 A         |
| design of the N-conductor protection   | adjustable OFF; 100% |
| product function / grounding protection  | No                   |

### 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]   | 7.13 in                        |
| height  | 181 mm                         |
| width [in]  | 5.51 in                        |
| type of connectable conductor cross-sections / of the round conductor terminal / stranded   | 1 x (6 - 120 mm <sup>2</sup> ) |
| width   | 140 mm                         |
| depth [in]  | 3.39 in                        |
| depth   | 86 mm                          |

### Connections

|   |                           |
|---|---------------------------|
| arrangement of electrical connectors / for main current circuit                       | Front terminal            |
| type of electrical connection / for main current circuit                              | double-sided box terminal |
| design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)    | tin                       |
| design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) | tin                       |

### Auxiliary circuit

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

## Accessories

product extension / optional / motor drive Yes

## 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

## Environmental footprint

Global Warming Potential [CO2 eq] / total 61.814 kg

Global Warming Potential [CO2 eq] / during manufacturing 14.6 kg

Global Warming Potential [CO2 eq] / during operation 48.9 kg

Global Warming Potential [CO2 eq] / after end of life -2.2 kg

Siemens Eco Profile (SEP) Siemens EcoTech

reference code / according to IEC 81346-2 Q

## Approvals / Certificates

General Product Approval

EMV



[Confirmation](#)



[Miscellaneous](#)



Test Certificates

Marine / Shipping

[Special Test Certificate](#)

[Miscellaneous](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping

other



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

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

Dangerous goods

Environment

[Transport Information](#)



Siemens EcoTech



[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=3VA2025-6HN46-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2025-6HN46-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2025-6HN46-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2025-6HN46-0AA0)

CAx-Online-Generator

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

Tender specifications

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





