

**Siemens**  
**EcoTech**



circuit breaker 3VA2 IEC Frame 250 breaking capacity class M Icu=55 kA @ 415 V  
3-pole, line protection ETU350, LSI, In=250 A overload protection Ir=100 A...250 A  
short-circuit protection I<sub>sd</sub>=1.5...10 x I<sub>r</sub>, I<sub>i</sub>=10 x I<sub>n</sub> 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                                                                     | ETU350                      |
| protection function of the overcurrent release                                                        | LSI                         |
| 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                                                                              | 48 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 16 W                        |
| mechanical service life (operating cycles) / typical                                                  | 25 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 12 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 8 400                       |
| 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                                                                                            | 2.188 kg                    |
| Current                                                                                               |                             |
| operational current                                                                                   |                             |
| • at 40 °C                                                                                            | 250 A                       |
| • at 45 °C                                                                                            | 250 A                       |
| • at 50 °C                                                                                            | 250 A                       |
| • at 55 °C                                                                                            | 241 A                       |
| • at 60 °C                                                                                            | 232 A                       |
| • at 65 °C                                                                                            | 222 A                       |
| • at 70 °C                                                                                            | 213 A                       |
| Switching capacity according to IEC 60947                                                             |                             |
| switching capacity class of the circuit breaker                                                       | M                           |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                    |                             |
| • at 240 V                                                                                            | 85 kA                       |
| • at 415 V                                                                                            | 55 kA                       |
| • at 440 V                                                                                            | 55 kA                       |

|                                                                                                                                                                                                      |                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                                                                     | 36 kA<br>3 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> | 85 kA<br>55 kA<br>55 kA<br>36 kA<br>3 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>             | 187 kA<br>121 kA<br>121 kA<br>75.6 kA<br>4.5 kA |

#### Adjustable parameters

|                                                                                                                                                                         |                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| product feature / for L-tripping / can be switched on/off                                                                                                               | No                 |
| adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | 100 A<br>250 A     |
| adjustable response value delay time (tr) / for L-tripping / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>     | 0.5 s<br>15 s      |
| adjustable response value setting current (Isd) / of S-trip / with I2t characteristic <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>    | 150 A<br>2 500 A   |
| adjustable response value delay time (tsd) / for S-tripping / with I2t 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 (Ii) / for I-tripping <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                          | 2 500 A<br>2 500 A |
| adjustable setting current (InN) / 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                                                                                                                                 | 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]                                                                                                                                      | 4.13 in        |
| width                                                                                                                                           | 105 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                                  | on both sides nut keeper kit |
| type of connectable conductor cross-sections / for flat-bar terminal connection / minimum | 13 x 1 mm                    |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum | 25 x 8 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)     | tin                          |

#### Auxiliary circuit

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

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| <b>Accessories</b>                                       |                 |
| product extension / optional / motor drive               | Yes             |
| <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           |
| <b>Environmental footprint</b>                           |                 |
| Environmental Product Declaration (EPD)                  | Yes             |
| global warming potential [CO2 eq] / total                | 251 kg          |
| global warming potential [CO2 eq] / during manufacturing | 20.4 kg         |
| global warming potential [CO2 eq] / during operation     | 235 kg          |
| global warming potential [CO2 eq] / after end of life    | -3.75 kg        |
| Siemens Eco Profile (SEP)                                | Siemens EcoTech |
| reference code / according to IEC 81346-2                | Q               |
| <b>Approvals / Certificates</b>                          |                 |
| <b>General Product Approval</b>                          |                 |



[Miscellaneous](#)



| General Product Approval | EMV | Test Certificates                        |                                                    |                               | Maritime application |
|--------------------------|-----|------------------------------------------|----------------------------------------------------|-------------------------------|----------------------|
|                          |     | <a href="#">Special Test Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Miscellaneous</a> |                      |

| Maritime application | other |                                                    |  |                              |                               |
|----------------------|-------|----------------------------------------------------|--|------------------------------|-------------------------------|
|                      |       | <a href="#">CCS (China Classification Society)</a> |  | <a href="#">Confirmation</a> | <a href="#">Miscellaneous</a> |

| Dangerous goods                       | Environment |  |  |                                             |                                             |
|---------------------------------------|-------------|--|--|---------------------------------------------|---------------------------------------------|
| <a href="#">Transport Information</a> |             |  |  | <a href="#">Environmental Confirmations</a> | <a href="#">Environmental Confirmations</a> |

|                                                                                                                                                                                                                                                                            |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Further information</b>                                                                                                                                                                                                                                                 |  |
| Information on the packaging<br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                                                                    |  |
| Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a>                                                                                                           |  |
| Industry Mall (Online ordering system)<br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-5HN32-0AA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-5HN32-0AA0</a>                                          |  |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)<br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-5HN32-0AA0">https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-5HN32-0AA0</a>                                                |  |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)<br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5HN32-0AA0">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-5HN32-0AA0</a> |  |
| CAx-Online-Generator<br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                                                                                                                                                                |  |
| Tender specifications<br><a href="http://www.siemens.com/specifications">http://www.siemens.com/specifications</a>                                                                                                                                                         |  |





