

**Siemens**  
**EcoTech**



circuit breaker 3VA2 IEC Frame 250 breaking capacity class L Icu=150 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                                                       | L                           |
| maximum short-circuit current breaking capacity (I <sub>cu</sub> )                                    |                             |
| • at 240 V                                                                                            | 200 kA                      |
| • at 415 V                                                                                            | 150 kA                      |
| • at 440 V                                                                                            | 150 kA                      |

|                                                                                                                                              |         |
|----------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <ul style="list-style-type: none"> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                             | 100 kA  |
| operating short-circuit current breaking capacity (Ics)                                                                                      | 25 kA   |
| <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> | 200 kA  |
|                                                                                                                                              | 150 kA  |
|                                                                                                                                              | 150 kA  |
|                                                                                                                                              | 100 kA  |
|                                                                                                                                              | 18 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> | 440 kA  |
|                                                                                                                                              | 330 kA  |
|                                                                                                                                              | 330 kA  |
|                                                                                                                                              | 220 kA  |
|                                                                                                                                              | 52.5 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   |
|                                                                                          | 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   |
|                                                                                          | 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>           | 375 A   |
|                                                                                          | 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>           | 0.02 s  |
|                                                                                          | 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 |
|                                                                                          | 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     |
|                                                                                          | 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      |
|                                                                                                                               | No      |
|                                                                                                                               | 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 |
|------------------------------------------------|---|

| 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                                  |                 |
| 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               |
| Approvals / Certificates                                 |                 |
| General Product Approval                                 |                 |



[Confirmation](#)



[Miscellaneous](#)

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

| Marine / Shipping |  |  |  |                                                    | other                        |
|-------------------|--|--|--|----------------------------------------------------|------------------------------|
|                   |  |  |  | <a href="#">CCS (China Classification Society)</a> | <a href="#">Confirmation</a> |

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

| Environment                                 |
|---------------------------------------------|
| <a href="#">Environmental Confirmations</a> |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>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></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...)<br/> <a href="http://www.siemens.com/lowvoltage/catalogs">http://www.siemens.com/lowvoltage/catalogs</a></p> <p>Industry Mall (Online ordering system)<br/> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-8HN32-0AA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-8HN32-0AA0</a></p> |

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-8HN32-0AA0>

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

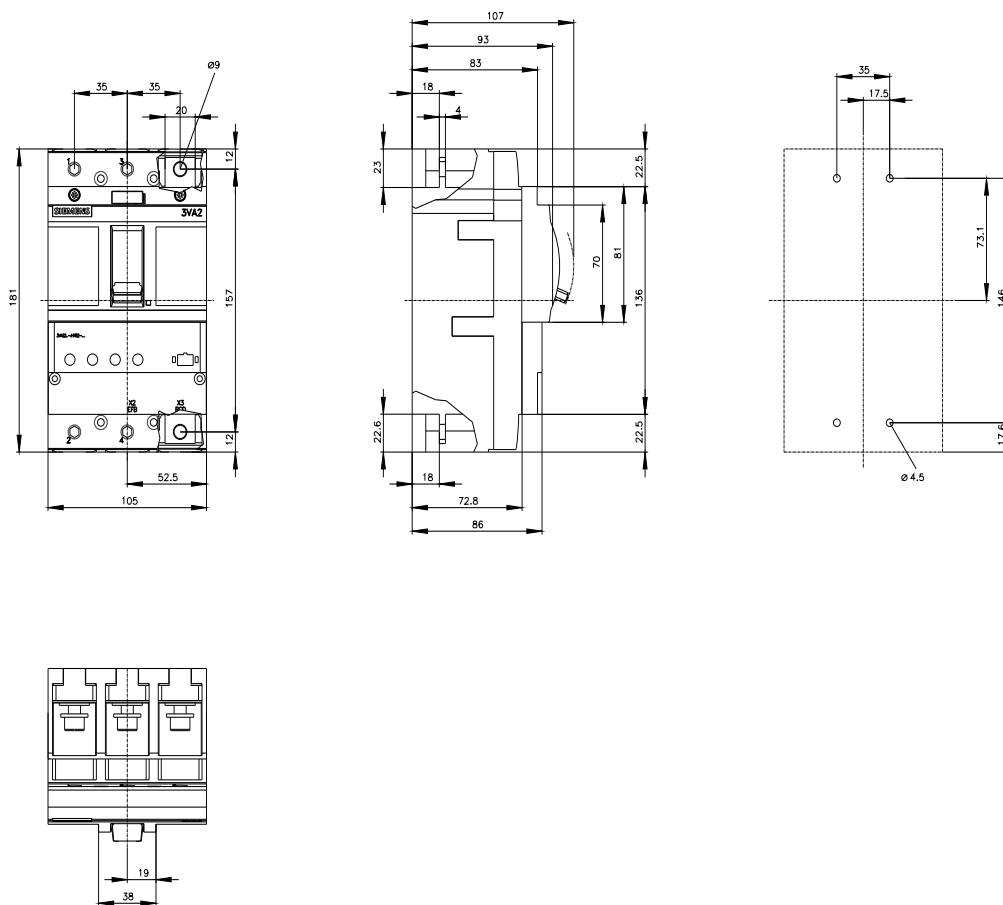
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2225-8HN32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-8HN32-0AA0)

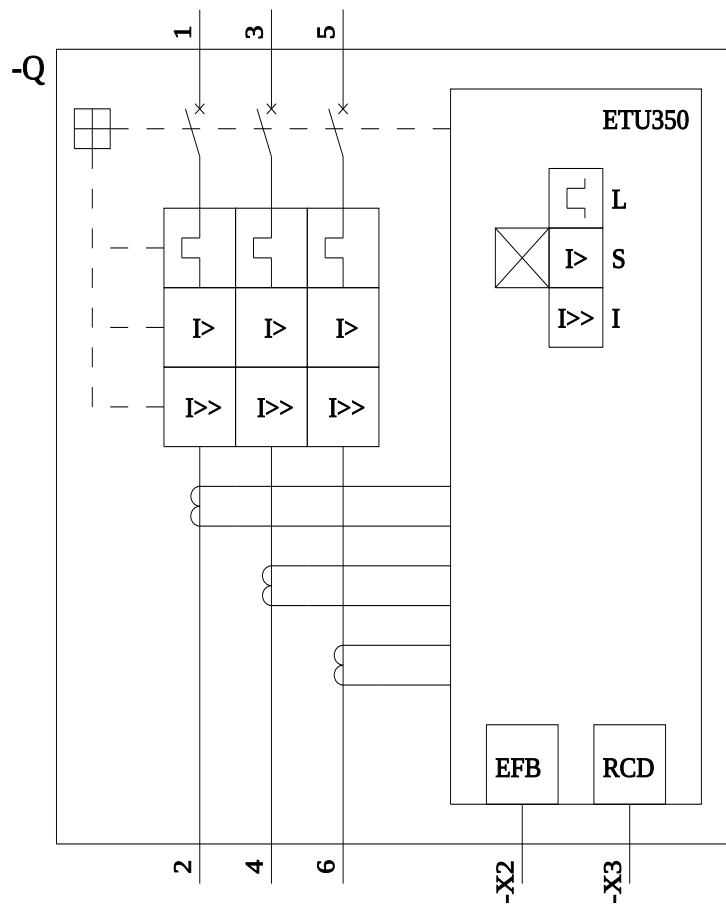
## CAX-Online-Generator

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

## Tender specifications

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





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