

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 250 breaking capacity class C Icu=110 kA @ 415 V 3-pole, line protection ETU330, LIG, In=250 A overload protection Ir=100 A...250 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  | 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   | Summation current formation L-conductor |
| product function  |   |
| • communication function  | No                                      |
| • other measurement function  | No                                      |
| Net Weight  | 2.217 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   | C                                       |
| maximum short-circuit current breaking capacity (Icu)   |   |
| • at 240 V  | 150 kA                                  |

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 440 V</li> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                     | <p>110 kA</p> <p>110 kA</p> <p>85 kA</p> <p>3 kA</p>                  |
| 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> | <p>150 kA</p> <p>110 kA</p> <p>110 kA</p> <p>85 kA</p> <p>3 kA</p>    |
| 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> | <p>330 kA</p> <p>242 kA</p> <p>242 kA</p> <p>187 kA</p> <p>4.5 kA</p> |

#### 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>                                    | <p>100 A</p> <p>250 A</p>   |
| 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>                                    | <p>0.5 s</p> <p>15 s</p>    |
| 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>                                    | <p>375 A</p> <p>2 500 A</p> |
| 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>                     | <p>50 A</p> <p>250 A</p>    |
| 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>• minimum</li> <li>• maximum</li> </ul>                                    | <p>0.1 s</p> <p>0.3 s</p>   |
| adjustable setting current (I <sub>nN</sub> ) / for N-tripping  |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                    | <p>0 A</p> <p>0 A</p>       |
| 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> | <p>No</p> <p>No</p> <p>No</p> |
| 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             |
| <b>Auxiliary circuit</b>  |                 |
| 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               |

**Approvals / Certificates**

**General Product Approval**



[Confirmation](#)



[Miscellaneous](#)



|                          |     |                   |                      |  |  |
|--------------------------|-----|-------------------|----------------------|--|--|
| General Product Approval | EMV | Test Certificates | Maritime application |  |  |
|--------------------------|-----|-------------------|----------------------|--|--|



[Type Test Certificates/Test Report](#)

[Miscellaneous](#)

[Special Test Certificate](#)



|                      |       |  |  |  |  |
|----------------------|-------|--|--|--|--|
| Maritime application | other |  |  |  |  |
|----------------------|-------|--|--|--|--|



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



[Confirmation](#)

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

[Miscellaneous](#)

[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 for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2225-7HM32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2225-7HM32-0AA0>

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

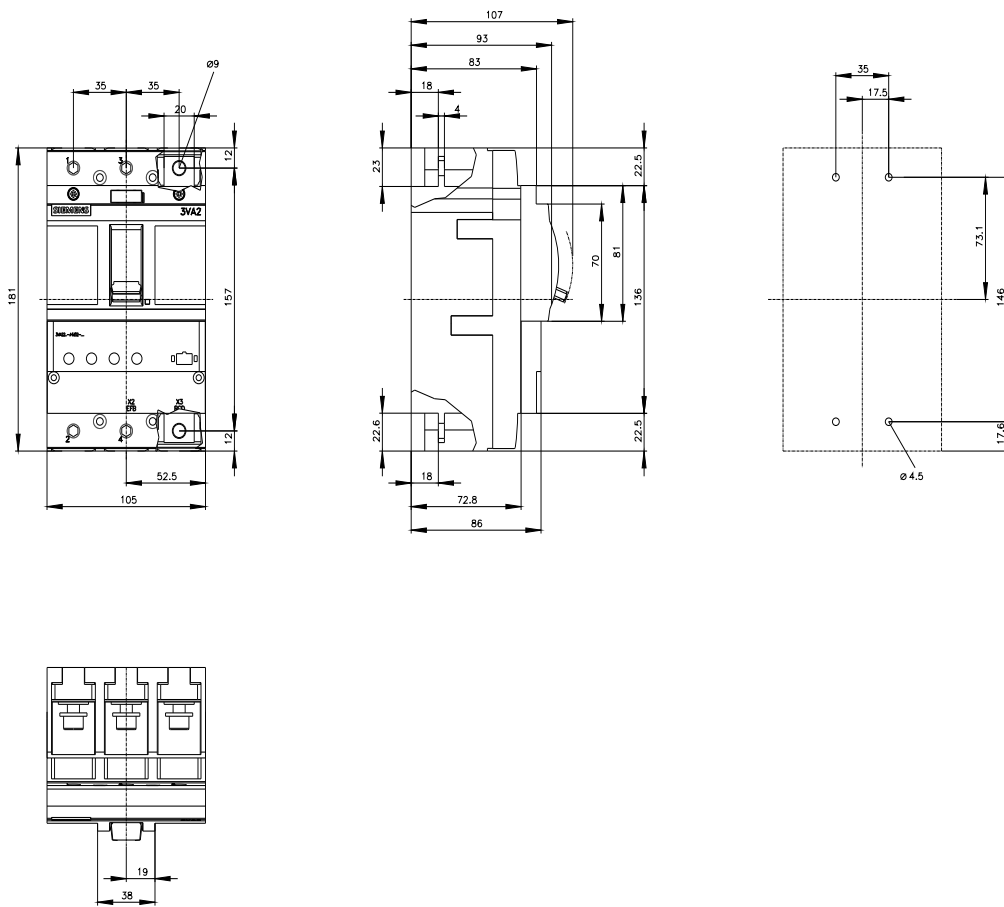
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2225-7HM32-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2225-7HM32-0AA0)

CAX-Online-Generator

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

Tender specifications

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





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