

Siemens  
EcoTech



circuit breaker 3VA2 IEC Frame 400 breaking capacity class E Icu=200 kA @ 415 V 3-pole, line protection ETU320, LI, In=400 A overload protection Ir=160 A ... 400 A short-circuit protection Ii=1.5...12 x In 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                                                                     | ETU320                      |
| protection function of the overcurrent release                                                        | LI                          |
| 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                                                                              | 96 W                        |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 32 W                        |
| mechanical service life (operating cycles) / typical                                                  | 20 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 6 000                       |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 4 200                       |
| 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                                                                                            | 5.123 kg                    |
| Current                                                                                               |                             |
| operational current                                                                                   |                             |
| • at 40 °C                                                                                            | 400 A                       |
| • at 45 °C                                                                                            | 400 A                       |
| • at 50 °C                                                                                            | 400 A                       |
| • at 55 °C                                                                                            | 385 A                       |
| • at 60 °C                                                                                            | 370 A                       |
| • at 65 °C                                                                                            | 355 A                       |
| • at 70 °C                                                                                            | 340 A                       |
| Switching capacity according to IEC 60947                                                             |                             |
| switching capacity class of the circuit breaker                                                       | E                           |
| maximum short-circuit current breaking capacity (Icu)                                                 |                             |
| • at 415 V                                                                                            | 200 kA                      |
| • at 690 V                                                                                            | 85 kA                       |
| operating short-circuit current breaking capacity (Ics)                                               |                             |

|                                                                                                                                                                                              |                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 690 V</li> </ul>                                                                                                             | 200 kA<br>65 kA                    |
| short-circuit current making capacity (I <sub>cm</sub> )                                                                                                                                     |                                    |
| <ul style="list-style-type: none"> <li>• at 415 V</li> <li>• at 690 V</li> </ul>                                                                                                             | 440 kA<br>187 kA                   |
| <b>Adjustable parameters</b>                                                                                                                                                                 |                                    |
| 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>                                                                                                               | 160 A<br>400 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>i</sub> ) / for I-tripping                                                                                                                 |                                    |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                                                                                                               | 600 A<br>4 800 A                   |
| adjustable setting current (I <sub>N</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                                                                                                                                                      | No                                 |
| <b>Mechanical Design</b>                                                                                                                                                                     |                                    |
| 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]                                                                                                                                                                                  | 9.76 in                            |
| height                                                                                                                                                                                       | 248 mm                             |
| width [in]                                                                                                                                                                                   | 5.43 in                            |
| width                                                                                                                                                                                        | 138 mm                             |
| depth [in]                                                                                                                                                                                   | 4.33 in                            |
| depth                                                                                                                                                                                        | 110 mm                             |
| <b>Connections</b>                                                                                                                                                                           |                                    |
| 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 1 mm                          |
| type of connectable conductor cross-sections / for flat-bar terminal connection / maximum                                                                                                    | 35 x 10 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                             |
| <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                                                                                                                                                                          |                                    |
| <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul> | -25 °C<br>70 °C<br>-40 °C<br>80 °C |
| <b>Environmental footprint</b>                                                                                                                                                               |                                    |
| global warming potential [CO <sub>2</sub> eq] / total                                                                                                                                        | 495 kg                             |
| global warming potential [CO <sub>2</sub> eq] / during manufacturing                                                                                                                         | 28.7 kg                            |
| global warming potential [CO <sub>2</sub> eq] / during operation                                                                                                                             | 470 kg                             |
| global warming potential [CO <sub>2</sub> eq] / after end of life                                                                                                                            | -4.07 kg                           |
| Siemens Eco Profile (SEP)                                                                                                                                                                    | Siemens EcoTech                    |
| reference code / according to IEC 81346-2                                                                                                                                                    | Q                                  |

## Approvals / Certificates

### General Product Approval



[Confirmation](#)

[Miscellaneous](#)



| EMV                                                                                      | Test Certificates             |                                          | Marine / Shipping                                  | other                        |                               |
|------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|----------------------------------------------------|------------------------------|-------------------------------|
| <br>RCM | <a href="#">Miscellaneous</a> | <a href="#">Special Test Certificate</a> | <a href="#">CCS (China Classification Society)</a> | <a href="#">Confirmation</a> | <a href="#">Miscellaneous</a> |
|                                                                                          |                               |                                          |                                                    |                              |                               |
| other                                                                                    | Dangerous goods               | Environment                              |                                                    |                              |                               |

[Miscellaneous](#)

[Transport Information](#)



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[Environmental Confirmations](#)

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### 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=3VA2340-0HL32-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2340-0HL32-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2340-0HL32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2340-0HL32-0AA0)

CAX-Online-Generator

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

Tender specifications

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





