

**Siemens**  
**EcoTech**



circuit breaker 3VA2 IEC Frame 160 breaking capacity class E Icu=200 kA @ 415 V 3-pole, line protection ETU350, LSI, In=40 A overload protection Ir=16 A ... 40 A short-circuit protection Isd=1.5...10xIr, li=12xIn 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                                                                                       | 3                           |
| General technical data                                                                                |                             |
| insulation voltage / rated value                                                                      | 800 V                       |
| operating voltage / at AC / rated value                                                               | 690 V                       |
| power loss [W] / maximum                                                                              | 1.2 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 0.4 W                       |
| mechanical service life (operating cycles) / typical                                                  | 25 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 14 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 9 800                       |
| 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                                                                                            | 2.5 kg                      |
| Current                                                                                               |                             |
| operational current                                                                                   |                             |
| • at 40 °C                                                                                            | 40 A                        |
| • at 45 °C                                                                                            | 40 A                        |
| • at 50 °C                                                                                            | 40 A                        |
| • at 55 °C                                                                                            | 40 A                        |
| • at 60 °C                                                                                            | 40 A                        |
| • at 65 °C                                                                                            | 40 A                        |
| • at 70 °C                                                                                            | 40 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>                                                                                                               | 16 A<br>40 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>                                                                                                               | 60 A<br>400 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>                                                                                                               | 480 A<br>480 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]                                                                                                                                                                                  | 7.13 in                            |
| height                                                                                                                                                                                       | 181 mm                             |
| width [in]                                                                                                                                                                                   | 4.13 in                            |
| type of connectable conductor cross-sections / of the round conductor terminal / stranded                                                                                                    | 1 x (6 - 120 mm <sup>2</sup> )     |
| width                                                                                                                                                                                        | 105 mm                             |
| depth [in]                                                                                                                                                                                   | 3.39 in                            |
| depth                                                                                                                                                                                        | 86 mm                              |
| <b>Connections</b>                                                                                                                                                                           |                                    |
| 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                                |
| <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 [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



[Confirmation](#)



[Miscellaneous](#)

|                          |     |                   |                   |
|--------------------------|-----|-------------------|-------------------|
| General Product Approval | EMV | Test Certificates | Marine / Shipping |
|--------------------------|-----|-------------------|-------------------|



[Special Test Certificate](#)

[Miscellaneous](#)



|                   |       |                 |             |
|-------------------|-------|-----------------|-------------|
| Marine / Shipping | other | Dangerous goods | Environment |
|-------------------|-------|-----------------|-------------|

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

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

[Transport Information](#)



#### Environment

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=3VA2140-0HN36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-0HN36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2140-0HN36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-0HN36-0AA0)

CAX-Online-Generator

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

Tender specifications

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





