



circuit breaker 3VA2 IEC Frame 100 breaking capacity class L Icu=150 kA @ 415 V 3-pole, line protection ETU350, LSI, In=100 A overload protection Ir=40 A...100 A short-circuit protection I<sub>sd</sub>=1.5...10 x I<sub>r</sub>, Ii=12 x I<sub>n</sub> 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                                                                              | 7.7 W                       |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 2.57 W                      |
| mechanical service life (operating cycles) / typical                                                  | 25 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 15 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 690 V                                          | 10 500                      |
| 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                                                                                            | 2.366 kg                    |
| Current                                                                                               |                             |
| operational current                                                                                   |                             |
| • at 40 °C                                                                                            | 100 A                       |
| • at 45 °C                                                                                            | 100 A                       |
| • at 50 °C                                                                                            | 100 A                       |
| • at 55 °C                                                                                            | 100 A                       |
| • at 60 °C                                                                                            | 100 A                       |
| • at 65 °C                                                                                            | 100 A                       |
| • at 70 °C                                                                                            | 100 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                      |
| • at 500 V                                                                                            | 100 kA                      |
| • at 690 V                                                                                            | 25 kA                       |
| operating short-circuit current breaking capacity (I <sub>cs</sub> )                                  |                             |
| • at 240 V                                                                                            | 200 kA                      |
| • at 415 V                                                                                            | 150 kA                      |
| • at 440 V                                                                                            | 150 kA                      |
| • at 500 V                                                                                            | 100 kA                      |
| • at 690 V                                                                                            | 18 kA                       |
| short-circuit current making capacity (I <sub>cm</sub> )                                              |                             |
| • at 240 V                                                                                            | 440 kA                      |

|            |         |
|------------|---------|
| • at 415 V | 330 kA  |
| • at 440 V | 330 kA  |
| • at 500 V | 220 kA  |
| • at 690 V | 52.5 kA |

#### 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 |          |
| • minimum                                                                                                         | 40 A     |
| • maximum                                                                                                         | 100 A    |
| adjustable response value delay time (t <sub>r</sub> ) / for L-tripping / with I <sub>2t</sub> characteristic     |          |
| • minimum                                                                                                         | 0.5 s    |
| • maximum                                                                                                         | 17 s     |
| adjustable response value setting current (I <sub>sd</sub> ) / of S-trip / with I <sub>2t</sub> characteristic    |          |
| • minimum                                                                                                         | 60 A     |
| • maximum                                                                                                         | 1 000 A  |
| adjustable response value delay time (t <sub>sd</sub> ) / for S-tripping / with I <sub>2t</sub> characteristic    |          |
| • minimum                                                                                                         | 0.0001 s |
| • maximum                                                                                                         | 0.4 s    |
| adjustable response value setting current (I <sub>i</sub> ) / for I-tripping                                      |          |
| • minimum                                                                                                         | 1 200 A  |
| • maximum                                                                                                         | 1 200 A  |
| product function / grounding protection                                                                           | No       |

#### Mechanical Design

|                                                                                           |                                |
|-------------------------------------------------------------------------------------------|--------------------------------|
| product component                                                                         |                                |
| • undervoltage release                                                                    | No                             |
| • voltage trigger                                                                         | No                             |
| • trip indicator                                                                          | 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                          |

#### Connections

|                                                                                       |                           |
|---------------------------------------------------------------------------------------|---------------------------|
| 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                       |

#### 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

|                                                                      |           |
|----------------------------------------------------------------------|-----------|
| global warming potential [CO <sub>2</sub> eq] / total                | 61.814 kg |
| global warming potential [CO <sub>2</sub> eq] / during manufacturing | 14.6 kg   |
| global warming potential [CO <sub>2</sub> 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



[Miscellaneous](#)



[Confirmation](#)

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



[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

##### Maritime application



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

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

[Miscellaneous](#)

[Miscellaneous](#)

[Confirmation](#)



[Transport Information](#)

[Environmental Confirmations](#)

##### Environment



[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=3VA2010-8HN36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2010-8HN36-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2010-8HN36-0AA0](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2010-8HN36-0AA0)

##### CAX-Online-Generator

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

##### Tender specifications

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

##### Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>)

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