

**Siemens**  
**EcoTech**



circuit breaker 3VA2 IEC Frame 100 breaking capacity class L Icu=150 kA @ 415 V 3-pole, line protection ETU560, LSIG, In=25 A overload protection Ir=10 A...25 A short-circuit protection Isd=0.6..10x In, li=1.5..12x In neutral conductor protection optionally with external current transformer, up to 160% ground-fault protection, can be switched off Ig=0.2...1 x In, tg=0.05-0.8s terminal connection



| Model                                                                                                 |                                         |
|-------------------------------------------------------------------------------------------------------|-----------------------------------------|
| product brand name                                                                                    | SENTRON                                 |
| product designation                                                                                   | Molded case circuit breaker             |
| design of the product                                                                                 | Line protection                         |
| design of the overcurrent release                                                                     | ETU560                                  |
| protection function of the overcurrent release                                                        | LSIG                                    |
| 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                                                                              | 0.5 W                                   |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole           | 0.17 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 | Yes                                     |
| ground-fault monitoring version                                                                       | Summation current formation L-conductor |
| product function                                                                                      |                                         |
| • communication function                                                                              | Yes                                     |
| • other measurement function                                                                          | No                                      |
| Net Weight                                                                                            | 2.5 kg                                  |
| Current                                                                                               |                                         |
| operational current                                                                                   |                                         |
| • at 40 °C                                                                                            | 25 A                                    |
| • at 45 °C                                                                                            | 25 A                                    |
| • at 50 °C                                                                                            | 25 A                                    |
| • at 55 °C                                                                                            | 25 A                                    |
| • at 60 °C                                                                                            | 25 A                                    |
| • at 65 °C                                                                                            | 25 A                                    |
| • at 70 °C                                                                                            | 25 A                                    |
| Switching capacity according to IEC 60947                                                             |                                         |
| switching capacity class of the circuit breaker                                                       | L                                       |
| maximum short-circuit current breaking capacity (Icu)                                                 |                                         |
| • 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>                | 10 A                        |
|                                                                                               | 25 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                       |
|                                                                                               | 25 s                        |
| adjustable response value setting current (Isd) / of S-trip / with I0t characteristic         |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 15 A                        |
|                                                                                               | 250 A                       |
| 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>                | 15 A                        |
|                                                                                               | 250 A                       |
| adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic         |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.05 s                      |
|                                                                                               | 0.5 s                       |
| 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>                | 0.05 s                      |
|                                                                                               | 0.5 s                       |
| adjustable response value setting current (Ii) / for I-tripping                               |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 38 A                        |
|                                                                                               | 300 A                       |
| 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> | 15 A                        |
|                                                                                               | 25 A                        |
| adjustable response value delay time (tg) / for G-tripping / with I0t characteristic          |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.05 s                      |
|                                                                                               | 0.8 s                       |
| adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic     |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 15 A                        |
|                                                                                               | 25 A                        |
| adjustable response value delay time (tg) / for G-tripping / with I2t characteristic          |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 0.05 s                      |
|                                                                                               | 0.8 s                       |
| adjustable setting current (InN) / for N-tripping                                             |                             |
| <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>                | 10 A                        |
|                                                                                               | 40 A                        |
| design of the N-conductor protection                                                          | adjustable OFF; 40% to 160% |
| product function / grounding protection                                                       | Yes                         |

| 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 mm²)         |
| 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 [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 |
|--------------------------|-----|------------------------------------------|-------------------------------|----------------------------------------------------|-------------------|
|                          |     | <a href="#">Special Test Certificate</a> | <a href="#">Miscellaneous</a> | <a href="#">Type Test Certificates/Test Report</a> |                   |
| Marine / Shipping        |     |                                          |                               |                                                    | other             |



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## Environment

[Environmental Con-  
firmations](#)

## 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=3VA2025-8JQ36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2025-8JQ36-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2025-8JQ36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2025-8JQ36-0AA0)

## CAx-Online-Generator

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

## Tender specifications

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



