

**Siemens  
EcoTech**



circuit breaker 3VA2 IEC Frame 100 breaking capacity class C  $I_{cu}=110\text{ kA @ }415\text{ V}$  3-pole, line protection ETU560, LSIG,  $I_n=25\text{ A}$  overload protection  $I_r=10\text{ A}...25\text{ A}$  short-circuit protection  $I_{sd}=0.6...10 \times I_n$ ,  $I_i=1.5...12 \times I_n$  neutral conductor protection optionally with external current transformer, up to 160% ground-fault protection, can be switched off  $I_g=0.2...1 \times I_n$ ,  $t_g=0.05-0.8\text{ s}$  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                                                       | C                                       |
| maximum short-circuit current breaking capacity ( $I_{cu}$ )                                          |                                         |
| • at 240 V                                                                                            | 150 kA                                  |
| • at 415 V                                                                                            | 110 kA                                  |
| • at 440 V                                                                                            | 110 kA                                  |

|                                                                                                                                                                                                      |                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 500 V</li> <li>• at 690 V</li> </ul>                                                                                                                     | 85 kA<br>2 kA                                |
| 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> | 150 kA<br>110 kA<br>110 kA<br>85 kA<br>2 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>             | 330 kA<br>242 kA<br>242 kA<br>187 kA<br>3 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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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                                                                  | EMV                       |



[Confirmation](#)



[Miscellaneous](#)



#### Test Certificates

#### Marine / Shipping

[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



#### Marine / Shipping

#### other



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

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)

#### Dangerous goods

#### Environment

## 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=3VA2025-7JQ36-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2025-7JQ36-0AA0>

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

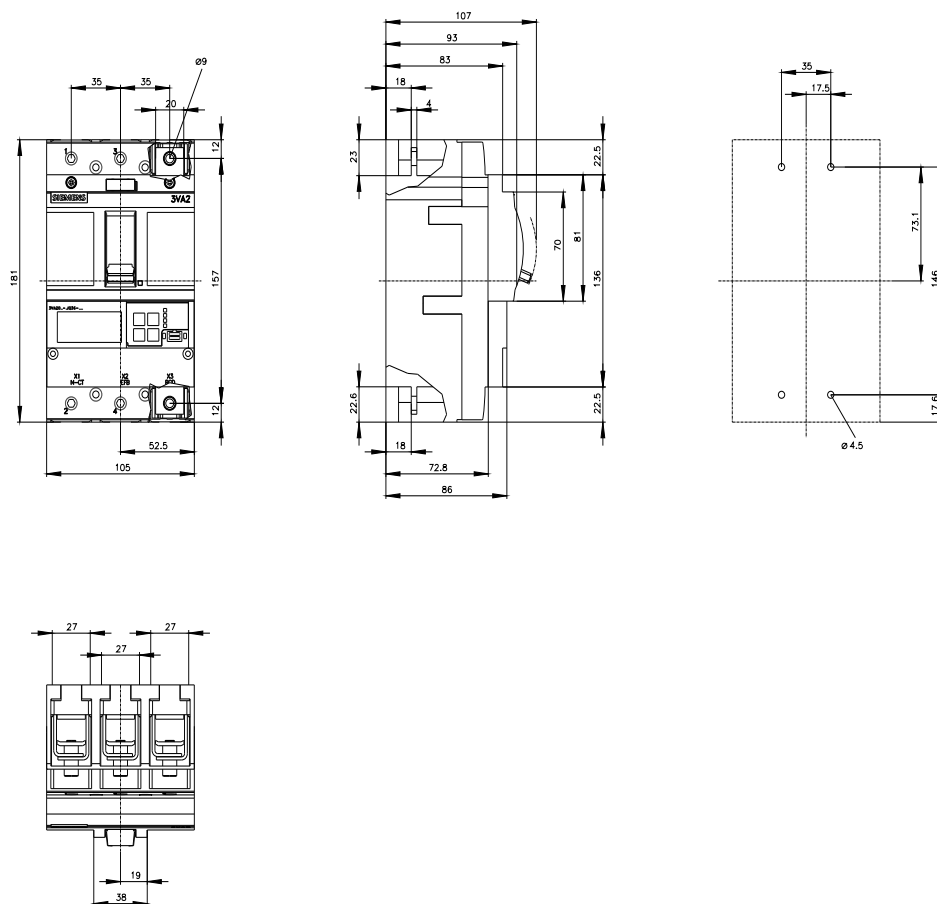
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2025-7JQ36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2025-7JQ36-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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





last modified:

10/24/2024 

