



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 3POLE, LINE PROTECTION ETU550, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% BUSBAR CONNECTION

| Model  |                             |
|--|-----------------------------|
| product brandname  | SENTRON                     |
| Product designation  | Molded case circuit breaker |
| Design of the product  | Line protection             |
| Type of load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes                         |
| Design of the overcurrent release  | ETU550                      |
| Protective function of the overcurrent release   | LSI                         |
| Number of poles  | 3                           |
| General technical data   |                             |
| Tension assignée d'isolement Ui  | 800 V                       |
| Max. rated operational voltage Ue with AC 50/60Hz  | 690 V                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per device                     | 7.7 W                       |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                       | 2.57 W                      |
| Mechanical service life (switching cycles) / typical   | 20 000                      |

|   |         |
|---|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 12 000  |
| Neutral conductors / upgradeable/retrofitable                             | Yes     |
| Ground fault monitoring version   | Without |
| Product function  |         |
| • communication function  | Yes     |
| • other measurement function  | No      |
| Net weight  | 2.29 kg |

### Electricity

|   |       |
|---|-------|
| Marking / according to UL 489 / 100%-rated breaker                | No    |
| Max. rated operational voltage of the size of the circuit-breaker | 100 A |
| Courant permanent assigné Iu                                      | 100 A |
| Operating 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 (Icu)     |        |
| • at 240 V  | 200 kA |
| • at 415 V  | 150 kA |
| • at 440 V  | 150 kA |
| • at 500 V  | 100 kA |
| • at 690 V  | 24 kA  |
| Operational short-circuit current breaking capacity (Ics) |        |
| • 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 (Icm)               |        |
| • at 240 V  | 440 kA |
| • at 415 V  | 330 kA |
| • at 440 V  | 330 kA |
| • at 500 V  | 220 kA |
| • at 690 V  | 50 kA  |

| Adjustable parameters   |         |
|---|---------|
| Adjustable response value current / I <sub>g</sub> min.                 | 40 A    |
| Adjustable response value current / I <sub>g</sub> min.                 | 100 A   |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.5     |
| Adjustable response value current / I <sub>g</sub> min.                 | 25      |
| Adjustable response value current / I <sub>g</sub> min.                 | 60 A    |
| Adjustable response value current / I <sub>g</sub> min.                 | 1 000 A |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF      | Yes     |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.05 s  |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.5 s   |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.05 s  |
| Adjustable response value current / I <sub>g</sub> min.                 | 0.5 s   |
| Adjustable response value current / I <sub>i</sub> min.                 | 150 A   |
| Adjustable response value current / I <sub>i</sub> max.                 | 1 200 A |
| Design of the N-conductor protection                                    | Without |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |

| Mechanical Design |        |
|-------------------|--------|
| Height [in]       | 7.1 in |
| Height            | 181 mm |
| Width [in]        | 4.1 in |
| Width             | 105 mm |
| Depth [in]        | 4.2 in |
| Depth             | 107 mm |

| Connections   |                |
|---|----------------|
| Arrangement of electrical connectors / for main current circuit                         | Front terminal |
| Type of electrical connection / for main current circuit                                | Lug terminal   |
| Type of connectable conductor cross-section, connection screw, width x thickness , min. | 13 x 1 mm      |

| 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  |   |
| <ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> </ul> | <ul style="list-style-type: none"> <li>-25 °C</li> <li>70 °C</li> <li>-40 °C</li> </ul> |

• during storage / maximum

80 °C

## Certificates

|  |            |                                  |
|--|------------|----------------------------------|
| Equipment marking / acc. to DIN EN 81346-2   | Q          |                                  |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | No         |                                  |
| <b>General Product Approval</b>  | <b>EMC</b> | <b>Declaration of Conformity</b> |



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## Test Certificates

[Typprüfbescheinigung/Werkszeugnis](#)

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ABS

BUREAU  
VERITAS

GL

LRS

## Shipping Approval

other



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## Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/lowvoltage/catalogs>

**Industry Mall (Online ordering system)**

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA2010-8JP32-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2010-8JP32-0AA0/all>

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

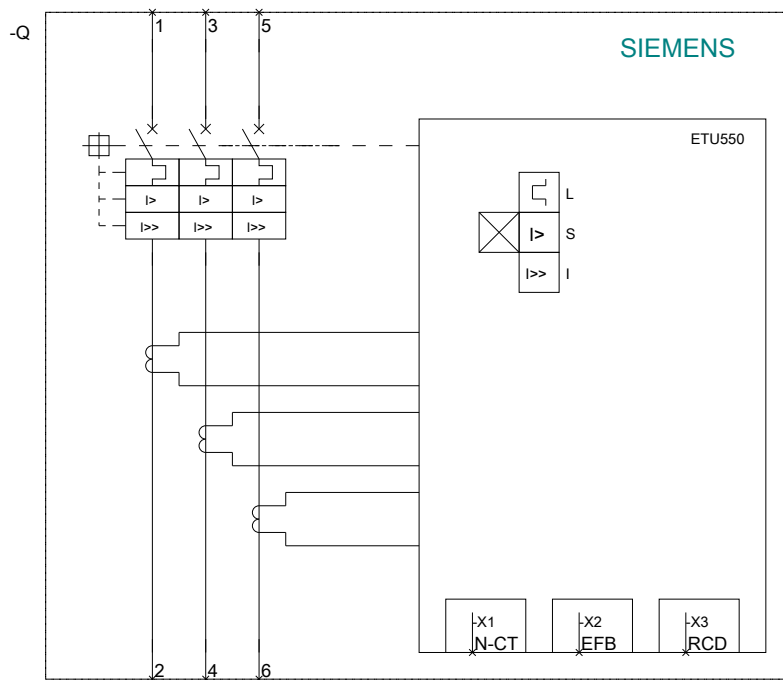
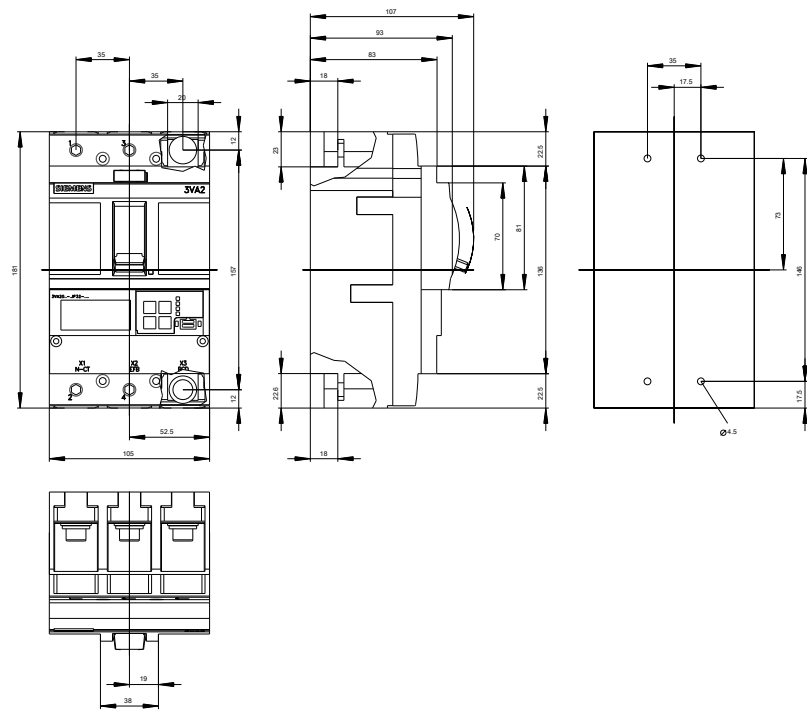
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3VA2010-8JP32-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3VA2010-8JP32-0AA0)

**CAX-Online-Generator**

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

**Tender specifications**

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



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