



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-POLE, LINE PROTECTION ETU350, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN CABLE CONNECTION SHUNT TRIP (STL) 220-250 V DC; 208-277 V AC

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brandname                              | SENTRON                     |
| Product designation                            | Molded case circuit breaker |
| Design of the product                          | Line protection             |
| Design of the overcurrent release              | ETU350                      |
| Protective function of the overcurrent release | LSI                         |
| Number of poles                                | 3                           |
| Design of the auxiliary release                | Shunt trip (STL)            |
| Design of the auxiliary switch                 | Without                     |

| 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 | 10 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                                                    | No      |
| Ground fault monitoring version                                                                  | Without |

|                              |         |
|------------------------------|---------|
| Product function             |         |
| • communication function     | No      |
| • Phase failure detection    | No      |
| • other measurement function | No      |
| Net weight                   | 2.52 kg |

#### Electricity

|                                                                   |         |
|-------------------------------------------------------------------|---------|
| Max. rated operational voltage of the size of the circuit-breaker | 160 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                                                        | 96.25 A |
| • at 60 °C                                                        | 92.5 A  |
| • at 65 °C                                                        | 88.75 A |
| • at 70 °C                                                        | 85 A    |

#### Switching capacity according to IEC 60947

|                                                           |         |
|-----------------------------------------------------------|---------|
| Switching capacity class of the circuit breaker           | M       |
| Maximum short-circuit current breaking capacity (Icu)     |         |
| • at 240 V                                                | 85 kA   |
| • at 415 V                                                | 55 kA   |
| • at 440 V                                                | 55 kA   |
| • at 500 V                                                | 36 kA   |
| • at 690 V                                                | 2.5 kA  |
| Operational short-circuit current breaking capacity (Ics) |         |
| • at 240 V                                                | 85 kA   |
| • at 415 V                                                | 55 kA   |
| • at 440 V                                                | 55 kA   |
| • at 500 V                                                | 36 kA   |
| • at 690 V                                                | 2.5 kA  |
| Short-circuit current making capacity (Icm)               |         |
| • at 240 V                                                | 187 kA  |
| • at 415 V                                                | 121 kA  |
| • at 440 V                                                | 121 kA  |
| • at 500 V                                                | 79 kA   |
| • at 690 V                                                | 4.25 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.            | 17      |
| Adjustable response value current / I <sub>g</sub> min.            | 150 A   |
| Adjustable response value current / I <sub>g</sub> min.            | 1 000 A |
| Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF | No      |
| Adjustable response value current / I <sub>g</sub> min.            | 0.02 s  |
| Adjustable response value current / I <sub>g</sub> min.            | 0.4 s   |
| Adjustable response value current / I <sub>i</sub> min.            | 1 200 A |
| Adjustable response value current / I <sub>i</sub> max.            | 1 200 A |

## Mechanical Design

|        |        |
|--------|--------|
| Height | 181 mm |
| Width  | 105 mm |
| Depth  | 86 mm  |

## Connections

|                                                                                 |                              |
|---------------------------------------------------------------------------------|------------------------------|
| Arrangement of electrical connectors / for main current circuit                 | Front terminal               |
| Type of electrical connection / for main current circuit                        | Box terminal                 |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6-120 mm <sup>2</sup> ) |

## Auxiliary circuit

|                                                |     |
|------------------------------------------------|-----|
| Product component                              |     |
| • undervoltage release                         | No  |
| • Voltage trigger                              | Yes |
| • undervoltage release with leading contact    | No  |
| • Trip indicator                               | No  |
| Number of CO contacts / for auxiliary contacts | 0   |

## Accessories

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Product extension / optional / motor drive | Yes                                |
| Manufacturer's article number              |                                    |
| • of the supplied basic switch             | <a href="#">3VA2110-5HN36-0AA0</a> |
| • of the integrated auxiliary trip         | 3VA9688-0BL33                      |

## 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  |

## Certificates

|                                            |   |
|--------------------------------------------|---|
| Equipment marking / acc. to DIN EN 81346-2 | Q |
|--------------------------------------------|---|

| General Product Approval                                                                 |                                                                                          |                                                                                          | EMC                     | Declaration of<br>Conformity                                                               |                                                                                                 |
|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <br>CCC | <br>VDE | <br>EAC | <a href="#">sonstig</a> | <br>RCM | <br>EG-Konf. |

| Test Certificates                                 | Shipping Approval       |                                                                                          |                                                                                                     |                                                                                           |                                                                                            |
|---------------------------------------------------|-------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <a href="#">Typprüfbescheinigung/Werkszeugnis</a> | <a href="#">sonstig</a> | <br>ABS | <br>BUREAU VERITAS | <br>GL | <br>LRS |

| Shipping Approval                                                                         | other                   |  |  |  |  |
|-------------------------------------------------------------------------------------------|-------------------------|--|--|--|--|
| <br>RMRS | <a href="#">sonstig</a> |  |  |  |  |

#### 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/3VA2110-5HN36-0KA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2110-5HN36-0KA0/all>

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

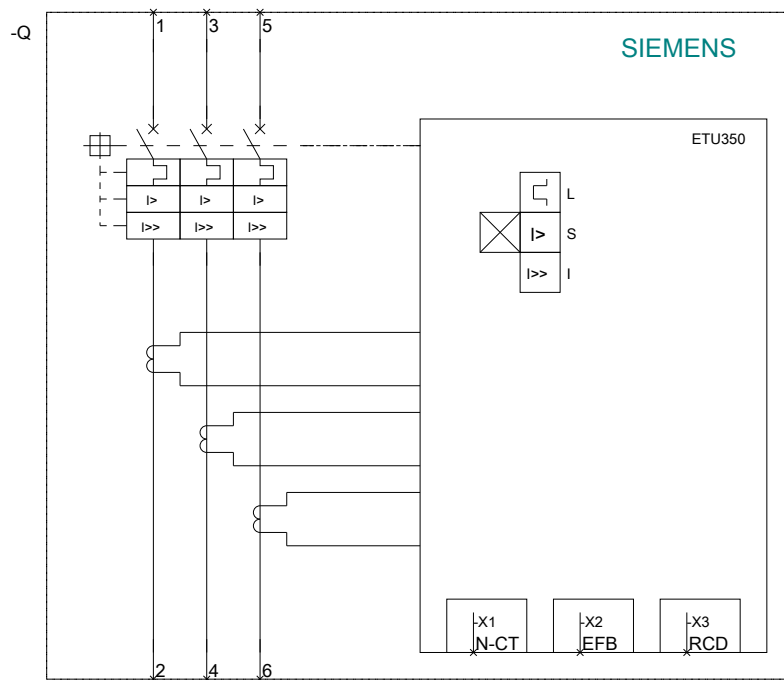
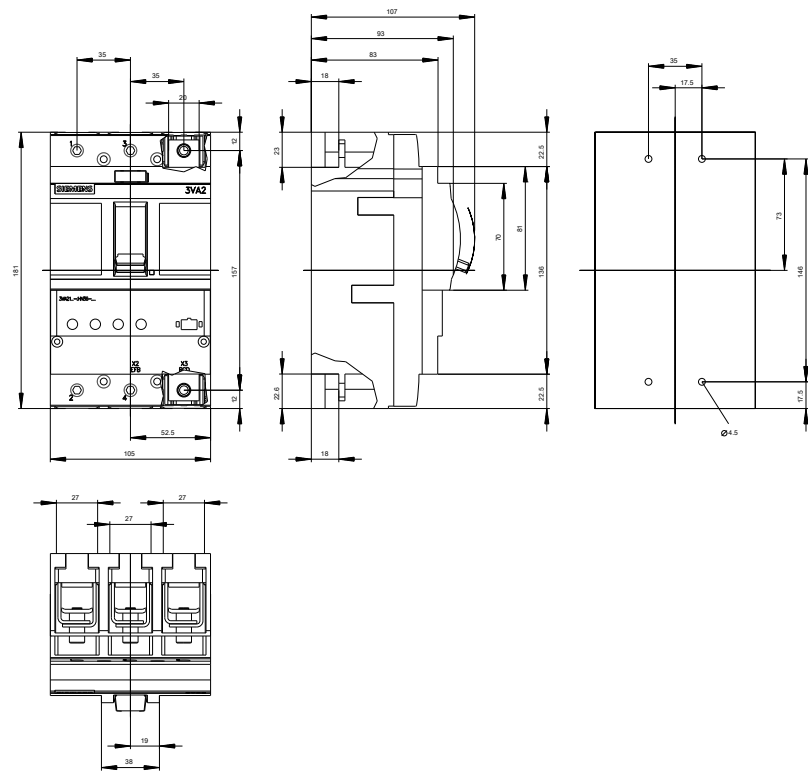
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-5HN36-0KA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-5HN36-0KA0)

##### CAX-Online-Generator

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

##### Tender specifications

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



last modified:

10/29/2016