



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, 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

| 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                                                                                    | ETU350                      |
| 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                     | 10 W                        |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole                       | 3.33 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       |
| • other measurement function                                              | No       |
| Net weight                                                                | 2.261 kg |

## Electricity

|                                                                   |       |
|-------------------------------------------------------------------|-------|
| Marking / according to UL 489 / 100%-rated breaker                | No    |
| 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                                                        | 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           | 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                                                | 76 kA  |
| • at 690 V                                                | 3.8 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 s     |
| Adjustable response value current / I <sub>g</sub> min.                 | 0 s     |
| 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 |
| 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                        | Box terminal                 |
| Type of connectable conductor cross-section, round conductor terminal, stranded | 1 x (6-120 mm <sup>2</sup> ) |

| 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  |

## Certificates

|                                                                                        |    |
|----------------------------------------------------------------------------------------|----|
| Equipment marking / acc. to DIN EN 81346-2                                             | Q  |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | No |

### General Product Approval

### EMC

### Declaration of Conformity



CCC



VDE



[sonstig](#)



RCM



EG-Konf.

### Test Certificates

### Shipping Approval

[Typprüfbescheinigung/Werkszeugnis](#)

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ABS



BUREAU  
VERITAS



GL



LRS

### Shipping Approval

### other



RMRS

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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/3VA2110-5HN36-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2110-5HN36-0AA0/all>

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

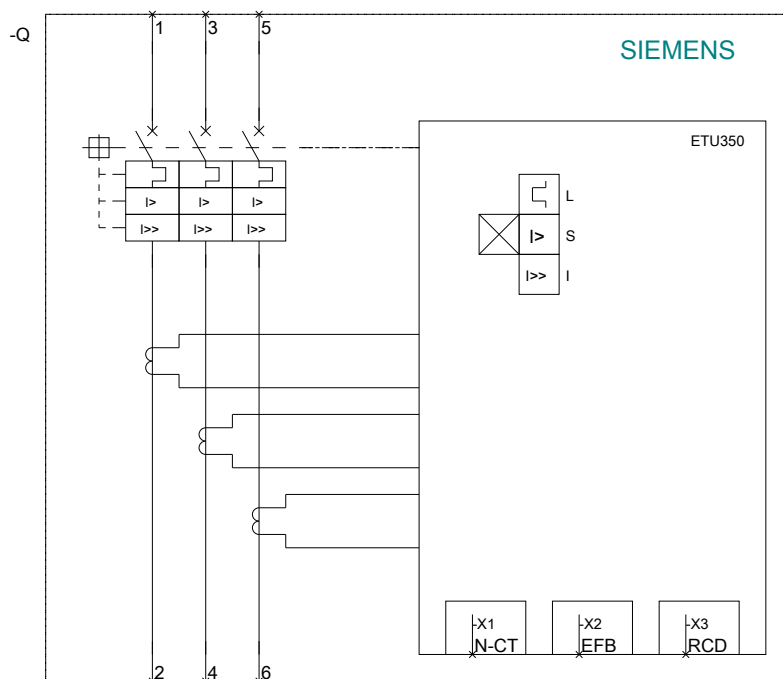
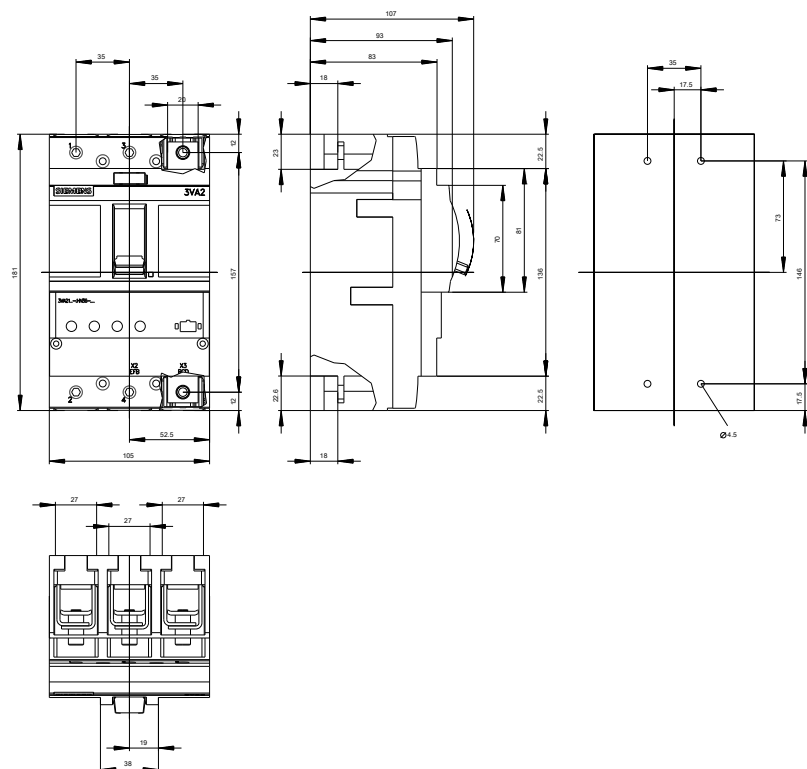
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-5HN36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-5HN36-0AA0)

### CAX-Online-Generator

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

### Tender specifications

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



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