



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3POLE, LINE PROTECTION ETU560, LSIG, 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% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8S CABLE CONNECTION

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brandname                              | SETRON                      |
| Product designation                            | Molded case circuit breaker |
| Design of the product                          | Line protection             |
| Design of the overcurrent release              | ETU560                      |
| Protective function of the overcurrent release | LSIG                        |
| 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                                                    | Yes                                     |
| Ground fault monitoring version                                                                  | Summation current formation L-conductor |

|                              |         |
|------------------------------|---------|
| Product function             |         |
| • communication function     | Yes     |
| • other measurement function | No      |
| Net weight                   | 2.44 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                                                        | 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.                                         | 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 can be switched ON/OFF                                                  | Yes     |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF                         | Yes     |
| Adjustable response value current / I <sub>g</sub> min.                                         | 20 A    |
| Adjustable response value current / I <sub>g</sub> max.                                         | 100 A   |
| Adjustable response value current / t <sub>g</sub> min.                                         | 0.05 s  |
| Adjustable response value current / I <sub>g</sub> min.                                         | 0.8 s   |
| Adjustable response value current / for G-tripping / with I <sub>2t</sub> characteristic / min. | 0.2 A   |
| Adjustable response value current / for G-tripping / with I <sub>2t</sub> characteristic / max. | 1 A     |

#### 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

#### General Product Approval

#### EMC

#### Declaration of Conformity



CCC



VDE

[Sonstige](#)



RCM



EG-Konf.

#### Test Certificates

#### Shipping Approval

[Typprüfbescheinigung/Werkszeugnis](#)

[Sonstige](#)

[spezielle  
Prüfbescheinigung  
n](#)



ABS



BUREAU  
VERITAS



GL

#### Shipping Approval

#### other



LRS



RMRS

[Sonstige](#)

#### Further information

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=3VA2110-5JQ36-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2110-5JQ36-0AA0/all>

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

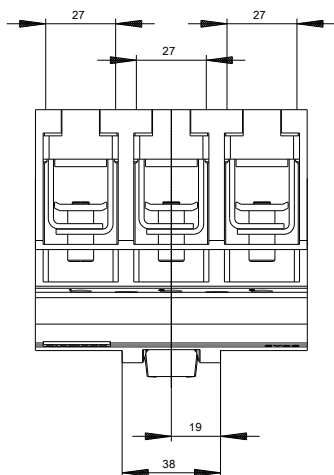
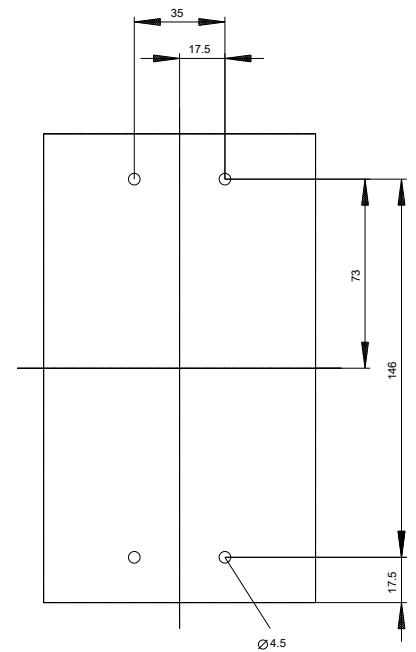
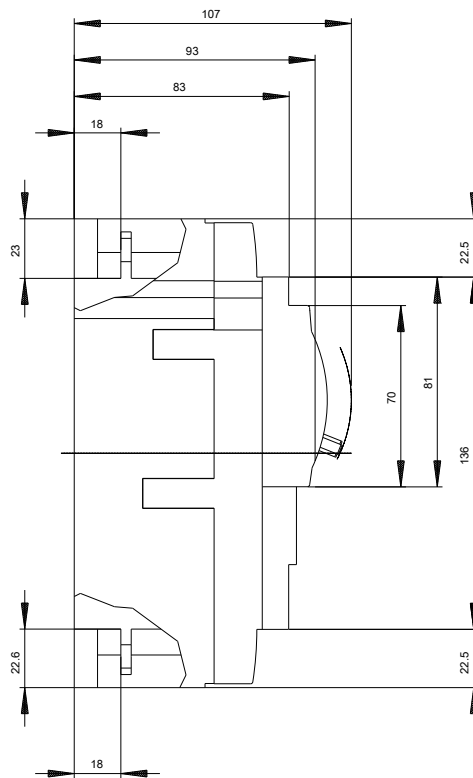
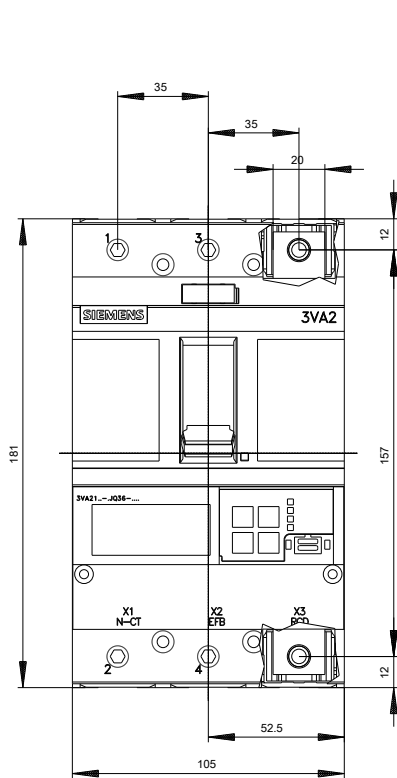
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-5JQ36-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-5JQ36-0AA0)

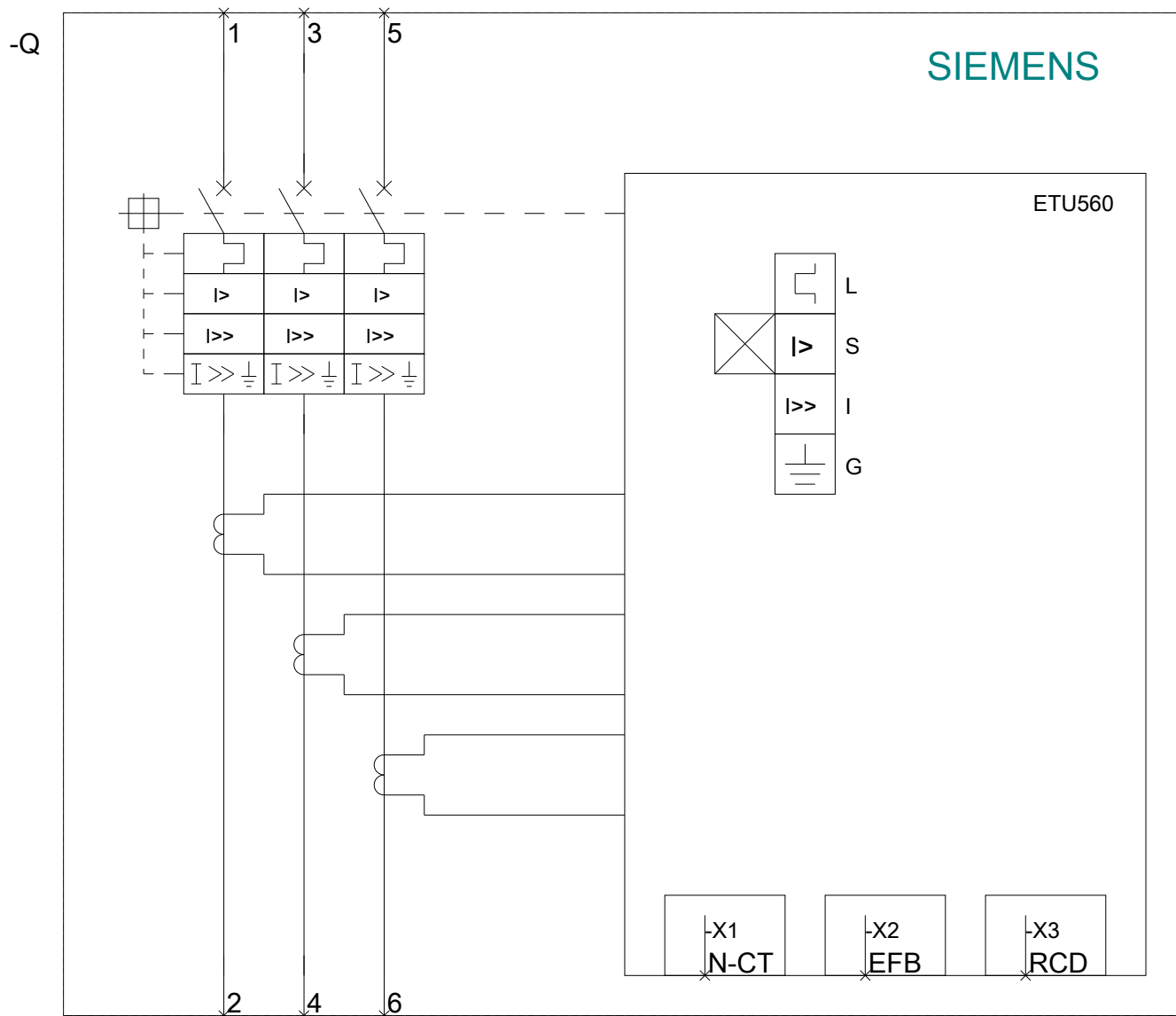
CAX-Online-Generator

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

Tender specifications

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





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