



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU350, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=1,5... 10 X IR, II=12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) BUSBAR CONNECTION

| Model                                          |                             |
|------------------------------------------------|-----------------------------|
| product brandname                              | SETRON                      |
| 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                                | 4                           |

| 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                   | 2.93 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.                 | 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                   |
| Design of the N-conductor protection                                    | adjustable OFF; 50%; 100% |
| Ground fault protection / tripping switchable / I <sub>2t</sub> =ON/OFF | No                        |

## Mechanical Design

|             |        |
|-------------|--------|
| Height [in] | 7.1 in |
| Height      | 181 mm |
| Width [in]  | 5.5 in |
| Width       | 140 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      |
| Type of connectable conductor cross-section, connection screw, width x thickness , max. | 25 x 8.5       |

## 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

| General Product Approval | EMC | Declaration of Conformity |
|--------------------------|-----|---------------------------|
|--------------------------|-----|---------------------------|



CCC



VDE

[sonstig](#)

RCM



EG-Konf.

| Test Certificates | Shipping Approval |
|-------------------|-------------------|
|-------------------|-------------------|

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n](#)


ABS

BUREAU  
VERITAS

GL

| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



LRS



RMRS

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## 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=3VA2110-5HN42-0AA0>

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

<http://support.automation.siemens.com/WW/view/en/3VA2110-5HN42-0AA0/all>

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

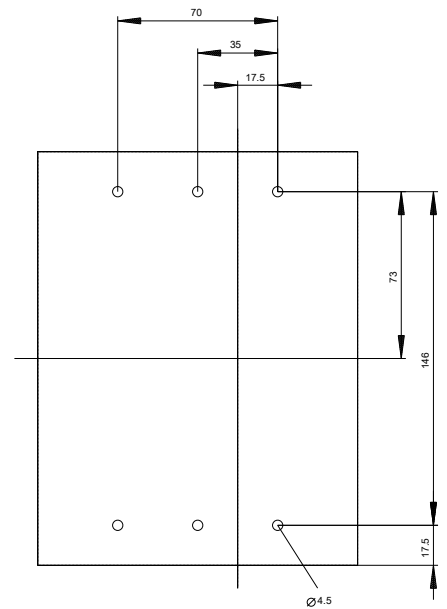
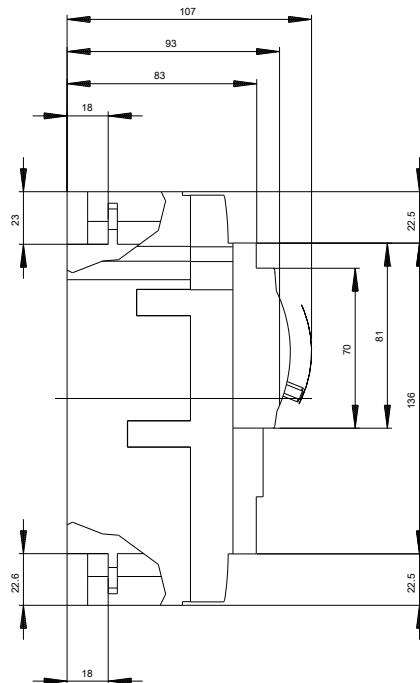
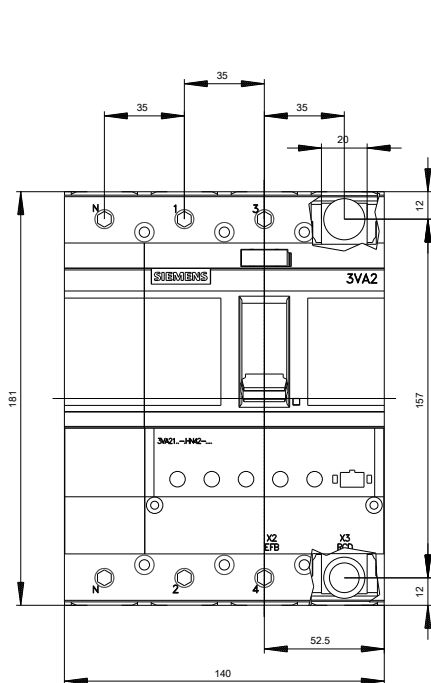
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-5HN42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-5HN42-0AA0)

## CAX-Online-Generator

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

## Tender specifications

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





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