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CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU330, LIG, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION II=1,5...12 X IN NEUTRAL PROTECTION ADJUSTABLE(OFF,50%,100%) GROUNDFAULTPROTECTION IG=0,2... 1 X IN, TG=0,1/0,3MS BUSBAR CONNECTION

### General technical data:

|                                                                                                  |   |                              |
|--------------------------------------------------------------------------------------------------|---|------------------------------|
| product brand name                                                                               |   | SENTRON                      |
| Product designation                                                                              |   | Molded Case Circuit Breakers |
| Acceptability for application                                                                    |   | system protection            |
| Design of the product                                                                            |   | Line Protection              |
| Product function                                                                                 |   |                              |
| • communication function                                                                         |   | No                           |
| • other measurement function                                                                     |   | No                           |
| Product component / display                                                                      |   | No                           |
| Design of the overcurrent release                                                                |   | ETU330                       |
| Protective function of the overcurrent release                                                   |   | LIG                          |
| Product property / for zero conductors / up/downgradable / short-circuit and overload protection |   | No                           |
| Continuous current / rated value                                                                 | A | 100                          |
| Operating voltage                                                                                |   |                              |
| • at 50/60 Hz / for AC / rated value                                                             | V | 690                          |
| Insulation voltage / rated value                                                                 | V | 800                          |
| Number of poles                                                                                  |   | 4                            |
| Active power loss / maximum                                                                      | W | 25.5                         |

|                                                 |  |      |
|-------------------------------------------------|--|------|
| Switching capacity class of the circuit breaker |  | M    |
| Protection class IP / on the front              |  | IP40 |

#### Motor rating data:

|                                                  |  |    |
|--------------------------------------------------|--|----|
| Product function / phase disturbance recognition |  | No |
|--------------------------------------------------|--|----|

#### Schaltvermögen:

|                                                                           |    |      |
|---------------------------------------------------------------------------|----|------|
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>     |    |      |
| • at 240 V / rated value                                                  | kA | 85   |
| • at 415 V / rated value                                                  | kA | 55   |
| • at 690 V / rated value                                                  | kA | 2.5  |
| <b>Breaking capacity operating short-circuit current (I<sub>cs</sub>)</b> |    |      |
| • at 240 V / rated value                                                  | kA | 85   |
| • at 415 V / rated value                                                  | kA | 55   |
| • at 690 V / rated value                                                  | kA | 2.5  |
| <b>Ultimate short-circuit current making capacity (I<sub>cm</sub>)</b>    |    |      |
| • at 240 V / rated value                                                  | kA | 187  |
| • at 415 V / rated value                                                  | kA | 121  |
| • at 690 V / rated value                                                  | kA | 3.75 |

#### Overcurrent Release:

|                                                                |   |             |
|----------------------------------------------------------------|---|-------------|
| <b>Adjustable response current</b>                             |   |             |
| • of the current-dependent overload release                    | A | 0.4 ... 1   |
| • of the non-delayed short-circuit release / initial value     | A | 1.5         |
| <b>Settable current response value / of I-trip / end value</b> |   |             |
| • with standard characteristic                                 | A | 12          |
| • with standard characteristic                                 | A | 0.2 ... 1   |
|                                                                | s | 0.1 ... 0.3 |

#### Connections:

|                                            |  |              |
|--------------------------------------------|--|--------------|
| <b>Design of the electrical connection</b> |  |              |
| • for main current circuit                 |  | Lug Terminal |

#### Control circuit:

|                                                      |  |    |
|------------------------------------------------------|--|----|
| <b>Number of changeover contacts</b>                 |  |    |
| • for auxiliary contacts                             |  | 0  |
| <b>Product component</b>                             |  |    |
| • undervoltage release mechanism                     |  | No |
| • Voltage trigger                                    |  | No |
| • undervoltage release with leading contact          |  | No |
| • trip indicator                                     |  | No |
| <b>Manufacturer article number</b>                   |  |    |
| • 3 of the integrated auxiliary switch /alarm switch |  |    |

- of integrated auxiliary trip

#### Ambient conditions:

##### Ambient temperature

- during operating
- during storage

|    |             |
|----|-------------|
| °C | -25 ... +70 |
| °C | -40 ... +80 |

#### Dimensions and weights:

|            |    |       |
|------------|----|-------|
| Width      | mm | 140   |
| Height     | mm | 181   |
| Depth      | mm | 107   |
| Net weight | g  | 2,930 |

#### Lebensdauer:

|                                                         |  |        |
|---------------------------------------------------------|--|--------|
| Mechanical operating cycles as operating time / typical |  | 20,000 |
| Reference code / according to DIN EN 61346-2            |  | Q      |

#### Certificates/approvals:

##### Declaration of Conformity

#### 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/3VA2110-5HM42-0AA0>

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

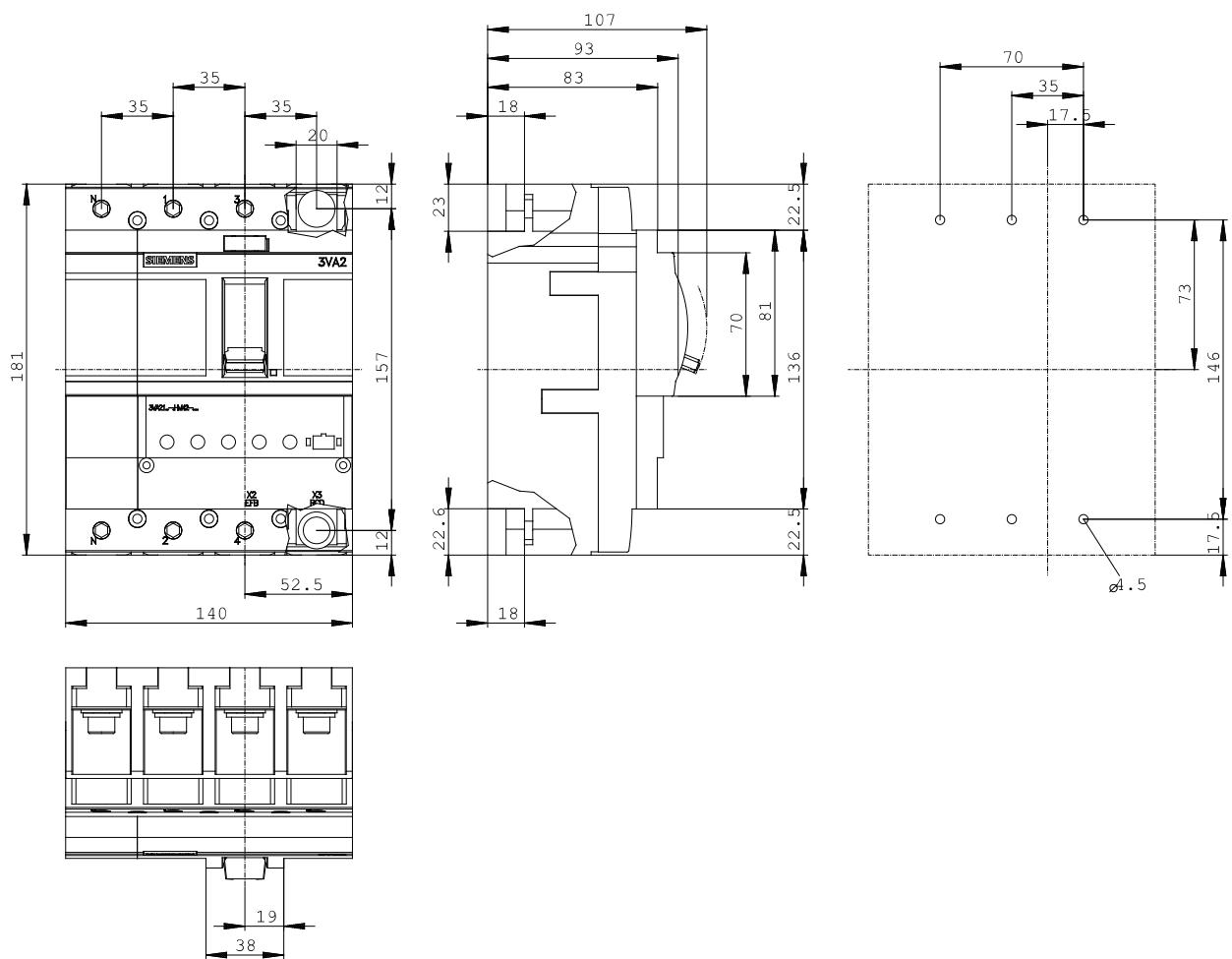
<http://support.automation.siemens.com/WW/view/en/3VA2110-5HM42-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2110-5HM42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2110-5HM42-0AA0)

##### CAX-Online-Generator

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



**last change:**

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