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CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU860, LSIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS 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                                                                         |   | Yes                          |
| • other measurement function                                                                     |   | Yes                          |
| Product component / display                                                                      |   | Yes                          |
| Design of the overcurrent release                                                                |   | ETU860                       |
| Protective function of the overcurrent release                                                   |   | LSIG                         |
| Product property / for zero conductors / up/downgradable / short-circuit and overload protection |   | No                           |
| Continuous current / rated value                                                                 | A | 160                          |
| 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 | 48                           |

|                                                                           |    |              |
|---------------------------------------------------------------------------|----|--------------|
| <b>Switching capacity class of the circuit breaker</b>                    |    | M            |
| <b>Protection class IP / on the front</b>                                 |    | IP40         |
| <b>Motor rating data:</b>                                                 |    |              |
| <b>Product function / phase disturbance recognition</b>                   |    | No           |
| <b>Schaltvermögen:</b>                                                    |    |              |
| <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 | 3            |
| <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 | 3            |
| <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 | 4.5          |
| <b>Overcurrent Release:</b>                                               |    |              |
| <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</b>                                    |    |              |
| • of S-trip                                                               |    |              |
| • with standard characteristic                                            | A  | 0.6 ... 10   |
| <b>Adjustable response current</b>                                        |    |              |
| • of the short-time delayed short-circuit release                         | A  | 0.6 ... 10   |
| <b>Settable delay / of the S-trip</b>                                     |    |              |
| • with standard characteristic                                            | s  | 0.05 ... 0.5 |
| • with I <sub>2t</sub> characteristic                                     | s  | 0.05 ... 0.5 |
| <b>Settable current response value / of I-trip / end value</b>            |    |              |
| • with standard characteristic                                            | A  | 12           |
| • with standard characteristic                                            | A  | 0.2 ... 1    |
| • with standard characteristic                                            | s  | 0.05 ... 0.8 |
| • with I <sub>2t</sub> characteristic                                     | A  | 0.2 ... 1    |
| • with I <sub>2t</sub> characteristic                                     | s  | 0.05 ... 0.8 |
| <b>Connections:</b>                                                       |    |              |
| <b>Design of the electrical connection</b>                                |    |              |
| • for main current circuit                                                |    | Lug Terminal |

**Control circuit:****Number of changeover contacts**

- for auxiliary contacts

0

**Product component**

- undervoltage release mechanism
- Voltage trigger
- undervoltage release with leading contact
- trip indicator

No

No

No

No

**Manufacturer article number**

- 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

3,100

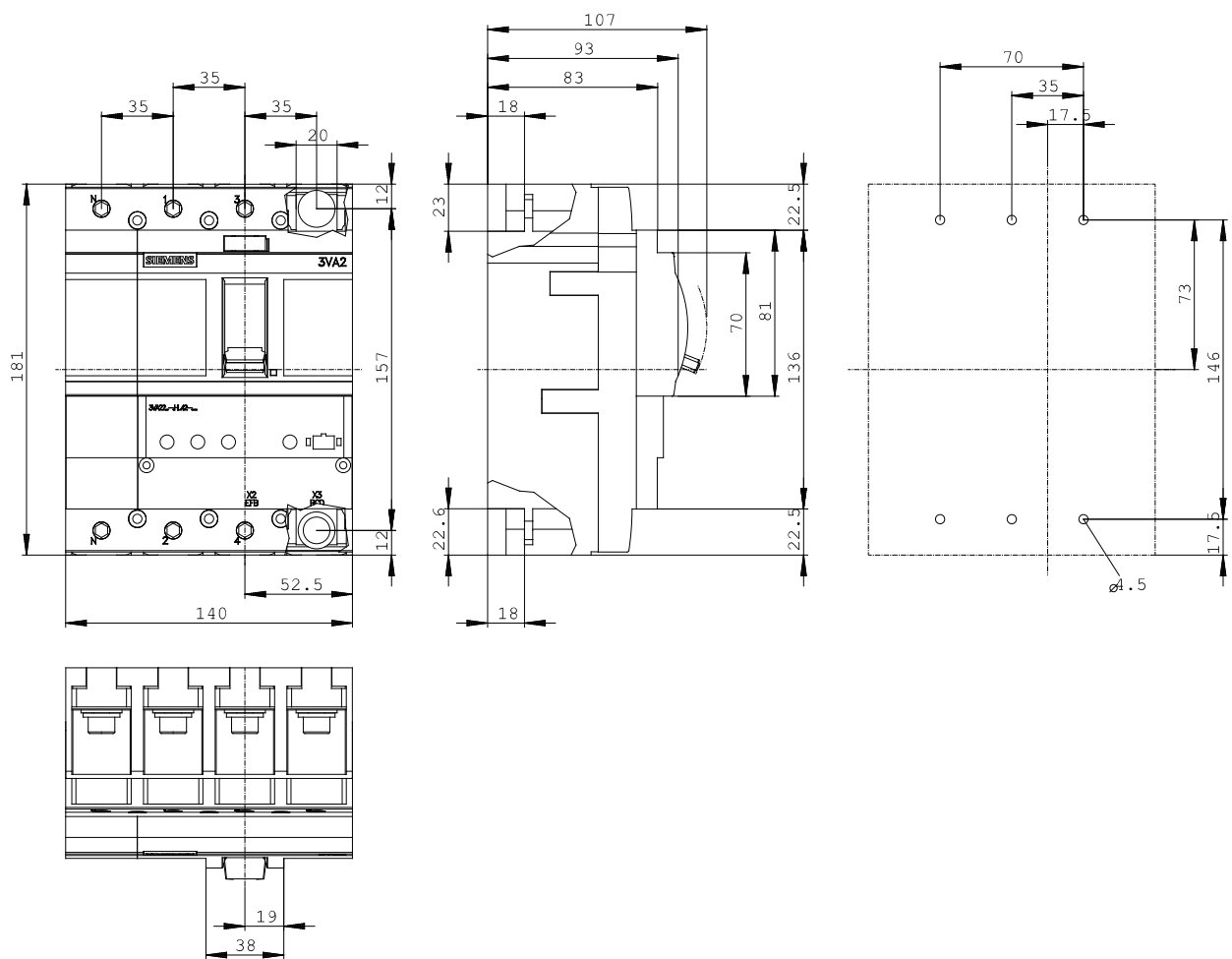
**Lebensdauer:****Mechanical operating cycles as operating time / typical**

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/3VA2216-5KQ42-0AA0>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<http://support.automation.siemens.com/WW/view/en/3VA2216-5KQ42-0AA0/all>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2216-5KQ42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2216-5KQ42-0AA0)**CAX-Online-Generator**<http://www.siemens.com/cax>



**last change:**

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