



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, 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%) BUSBAR CONNECTION

Similar to image

### 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                                                                |   | ETU850                       |
| Protective function of the overcurrent release                                                   |   | LSI                          |
| 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 |

#### Motor rating data:

|                                                         |  |    |
|---------------------------------------------------------|--|----|
| <b>Product function / phase disturbance recognition</b> |  | 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 | 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 |

#### 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</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> | A | 12           |

#### 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 | °C | -25 ... +70 |
| • during storage   | °C | -40 ... +80 |

#### Dimensions and weights:

|                   |    |       |
|-------------------|----|-------|
| <b>Width</b>      | mm | 140   |
| <b>Height</b>     | mm | 181   |
| <b>Depth</b>      | mm | 107   |
| <b>Net weight</b> | g  | 3,100 |

#### Lebensdauer:

|                                                                |  |        |
|----------------------------------------------------------------|--|--------|
| <b>Mechanical operating cycles as operating time / typical</b> |  | 20,000 |
| <b>Reference code / according to DIN EN 61346-2</b>            |  | 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/3VA2216-5KP42-0AA0>

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

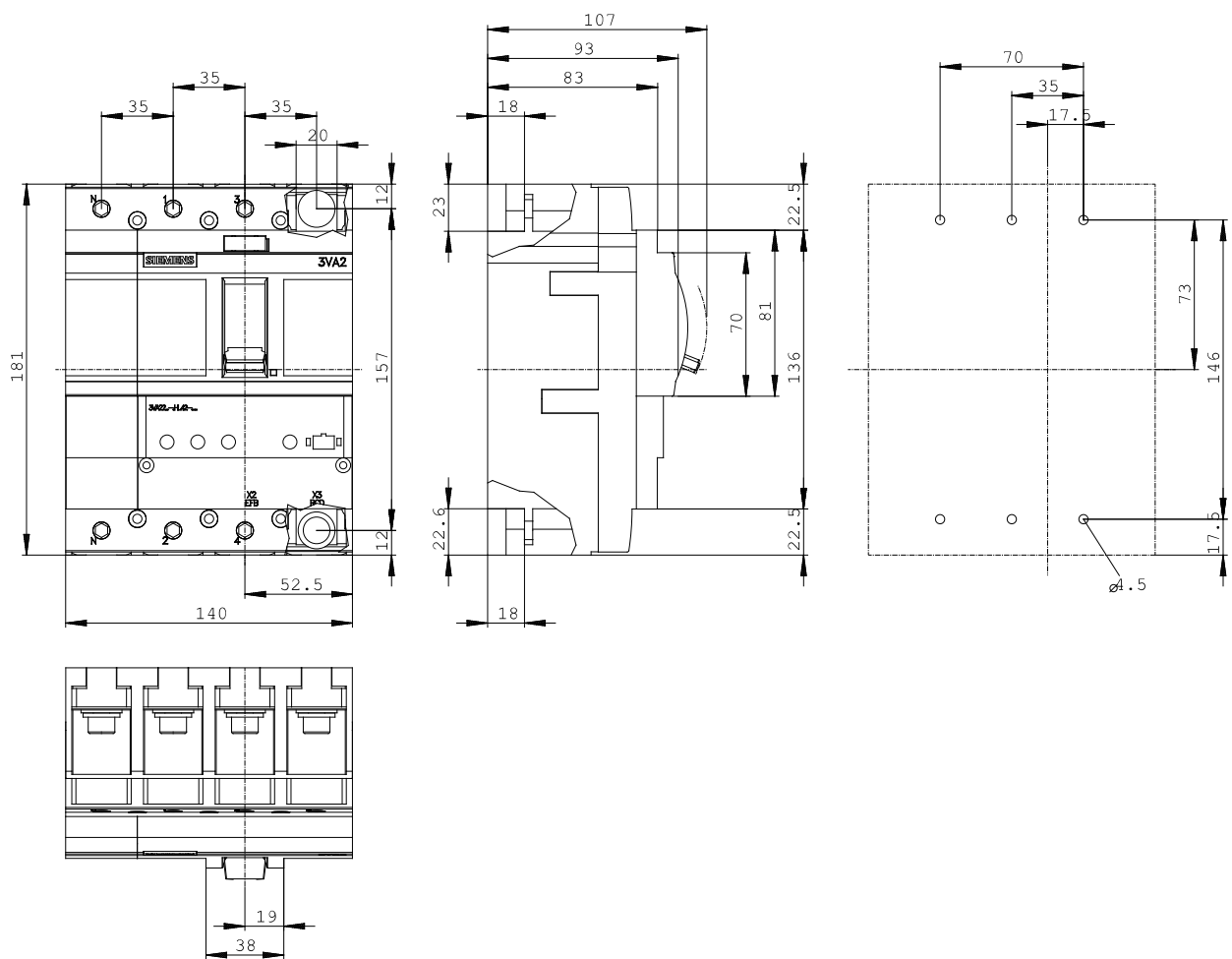
<http://support.automation.siemens.com/WW/view/en/3VA2216-5KP42-0AA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2216-5KP42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2216-5KP42-0AA0)

##### CAX-Online-Generator

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



**last change:**

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