

fixed-mounted molded case circuit breaker frame 1600; with RTC and 4AUX trip alarm switch S24; Icu "H" Icu=85kA @ 415V, 4-pole, left ETU350, LSI, In=1250A rotary coding switch Ir=500...1250A Isd=1...10xIn, li=1.5...15xIn N conductor protec. adjustable OFF, 50%, 100%, 200% nut keeper kit

| Model   |                             |
|---|-----------------------------|
| product brand name  | SENTRON                     |
| product designation   | Molded case circuit breaker |
| design of the product   | MCCB                        |
| design of the actuating element   | spring actuator             |
| type of the driving mechanism   | without motor drive         |
| type of the driving mechanism / motor drive   | No                          |
| design of the overcurrent release   | ETU350                      |
| General technical data  |                             |
| number of poles   | 4                           |
| size of the circuit-breaker   | 1600 A                      |
| mechanical service life (switching cycles) / typical  | 1 000                       |
| circuit-breaker / Design  | 3VA2                        |
| Voltage   |                             |
| insulation voltage / rated value  | 1 000 V                     |
| operating voltage / at AC / at 50/60 Hz / rated value                                       | 690 V                       |
| protection class IP   | IP20                        |
| protection class IP / on the front  | IP20                        |
| protection function of the overcurrent release  | LSI                         |
| power loss [W] / for rated value of the current / at AC / in hot operating state / per pole | 47 W                        |
| Current   |                             |
| continuous current / rated value  | 1 250 A                     |
| adjustable current response value current   |                             |
| • of the current-dependent overload release / full-scale value                              | 1 250 A                     |
| • of instantaneous short-circuit trip unit / initial value                                  | 1 875 A                     |
| • of instantaneous short-circuit trip unit / full-scale value                               | 18 750 A                    |
| short-time withstand current (Icw)  |                             |
| • limited to 1 s / rated value  | 20 kA                       |
| • at AC / at 415 V / limited to 0.5 s / rated value   | 20 kA                       |
| Main circuit  |                             |
| operational current   |                             |
| • at 40 °C / rated value  | 1 250 A                     |
| • at 50 °C / rated value  | 1 250 A                     |
| • at 55 °C / rated value  | 1 240 A                     |
| • at 60 °C / rated value  | 1 182 A                     |
| • at 65 °C / rated value  | 1 122 A                     |
| • at 70 °C / rated value  | 1 057 A                     |
| Auxiliary circuit   |                             |
| number of CO contacts / for auxiliary contacts  | 4                           |
| Suitability   |                             |
| suitability for use   | system protection           |
| Adjustable parameters   |                             |
| adjustable current response value current   |                             |

|  |          |
|--|----------|
| <ul style="list-style-type: none"> <li>• of the short-time delayed short-circuit release / initial value</li> </ul>    | 1 250 A  |
| <ul style="list-style-type: none"> <li>• of the short-time delayed short-circuit release / full-scale value</li> </ul> | 12 500 A |
| adjustable current response value current / of the current-dependent overload release / initial value                  | 500 A    |
| product component  |          |
| <ul style="list-style-type: none"> <li>• trip indicator</li> </ul>   | Yes      |
| <ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>  | No       |
| <ul style="list-style-type: none"> <li>• undervoltage release</li> </ul>   | No       |
| product extension / optional / motor drive   | Yes      |

#### Product function

|  |    |
|--|----|
| product function   |    |
| <ul style="list-style-type: none"> <li>• grounding protection</li> </ul> | No |

#### Display and operation

|                 |                 |
|-----------------|-----------------|
| display version | Without display |
|-----------------|-----------------|

#### Short circuit

|  |       |
|--|-------|
| breaking capacity operating short-circuit current (Ics)                    |       |
| <ul style="list-style-type: none"> <li>• at 415 V / rated value</li> </ul> | 85 kA |
| <ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul> | 55 kA |
| <ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul> | 36 kA |
| breaking capacity maximum short-circuit current (Icu)                      |       |
| <ul style="list-style-type: none"> <li>• at 415 V / rated value</li> </ul> | 85 kA |
| <ul style="list-style-type: none"> <li>• at 440 V / rated value</li> </ul> | 85 kA |
| <ul style="list-style-type: none"> <li>• at 500 V / rated value</li> </ul> | 55 kA |
| <ul style="list-style-type: none"> <li>• at 690 V / rated value</li> </ul> | 36 kA |

#### Connections

|   |                               |
|---|-------------------------------|
| arrangement of electrical connectors / for main current circuit | Main connection on front side |
| type of electrical connection / for main current circuit        | busbar connection             |

#### Mechanical Design

|                  |                |
|------------------|----------------|
| height           | 296 mm         |
| width            | 280 mm         |
| depth            | 183 mm         |
| fastening method | fixed mounting |
| net weight       | 16 kg          |

#### Environmental conditions

|   |        |
|---|--------|
| ambient temperature / during operation                      |        |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul> | -25 °C |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul> | 70 °C  |
| ambient temperature / during storage                        |        |
| <ul style="list-style-type: none"> <li>• minimum</li> </ul> | -40 °C |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul> | 70 °C  |

#### Certificates

|  |   |
|--|---|
| reference code   |   |
| <ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul> | Q |
| <ul style="list-style-type: none"> <li>• acc. to IEC 81346-2</li> </ul>    | Q |

#### Further information

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-2AC13-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-2AC13-0AA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA2712-2AC13-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-2AC13-0AA0)

##### Tender specifications

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





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