

fixed-mounted molded case circuit breaker frame 1600; with RTC and 4AUX trip alarm switch S24; Icu "H" Icu=85kA @ 415V, 3-pole ETU650, LSI, In=1600A display, meas., comm. function Ir=640...1600A I<sub>sd</sub>=0.6...10xI<sub>n</sub>, I<sub>i</sub>=1.5...15xI<sub>n</sub> N conductor protec. adjustable opt. w. ext. CT; up to 200% straight bus connector extended With optional communication connection including integrated breaker connect 24 V DC module, actuator COM ACT, COM RTC and COM PSS(as draw-out version) No measurement function Motorized operating mechanism 100...130 V AC/DC incl. S21 spring energy store signaling switch With electr. and mech. calling Switch-on solenoid (CC) 110-120 V AC/DC without 2nd auxiliary release With 1st auxiliary release, ST Shunt release 110-120 V AC/DC F11= Communication module COM043 Modbus TCP Gateway S22= Locking device padlock in OFF position, against unauthorized switching on D=4 mm, plastic (safe OFF/disconnector functionality)

| Model   |                             |
|---|-----------------------------|
| product designation   | Molded case circuit breaker |
| design of the product   | MCCB                        |
| design of the actuating element   | spring actuator             |
| type of the driving mechanism   | motor drive                 |
| type of the driving mechanism / motor drive   | Yes                         |
| design of the overcurrent release   | ETU650                      |
| General technical data  |                             |
| number of poles   | 3                           |
| mechanical service life (operating cycles) / typical  | 10 000                      |
| electrical endurance (operating cycles) / at AC-1 / at 380/415 V                                      | 2 000                       |
| insulation voltage / rated value  | 1 000 V                     |
| operational current   |                             |
| • at 45 °C / rated value  | 1 541 A                     |
| continuous current / rated value / maximum  | 1 600 A                     |
| Supply voltage  |                             |
| operating voltage   |                             |
| • at AC / at 50/60 Hz / rated value   | 690 V                       |
| Protection class  |                             |
| protection class IP / on the front  | IP20                        |
| Breaking Capacity   |                             |
| switching capacity class of the circuit breaker   | H                           |
| power loss [W]  |                             |
| • for rated value of the current / at AC / in hot operating state / per pole                          | 77 W                        |
| • maximum   | 231 W                       |
| Auxiliary circuit   |                             |
| number of CO contacts / for auxiliary contacts  | 4                           |
| Suitability   |                             |
| suitability for use   | system protection           |
| Adjustable parameters   |                             |
| adjustable current response value current / of the short-time delayed short-circuit release           |                             |
| • initial value   | 960 A                       |
| • full-scale value  | 16 000 A                    |
| adjustable current response value current / of the L-trip / with I4t characteristic                   |                             |
| • initial value   | 0.4 A                       |
| • full-scale value  | 1 A                         |
| adjustable current response value current / of the current-dependent overload release / initial value | 640 A                       |
| Product details   |                             |
| product component   |                             |
| • trip indicator  | Yes                         |

|   |  |
|---|--|
| • voltage trigger   | Yes  |
| • undervoltage release  | No   |
| <b>Product function</b>   |  |
| <b>product function</b>   |  |
| • grounding protection  | No   |
| • communication function  | Yes  |
| • phase failure detection   | Yes  |
| <b>Display and operation</b>  |  |
| <b>display version</b>  | With full graphics display                       |
| <b>Short circuit</b>  |  |
| <b>operating short-circuit current breaking capacity (Ics)</b>  |  |
| • at 240 V / rated value  | 150 kA   |
| • at 415 V / rated value  | 85 kA  |
| • at 440 V / rated value  | 85 kA  |
| • at 500 V / rated value  | 55 kA  |
| • at 690 V / rated value  | 36 kA  |
| <b>maximum short-circuit current breaking capacity (Icu)</b>  |  |
| • at 240 V / rated value  | 150 kA   |
| • at 415 V / rated value  | 85 kA  |
| • at 440 V / rated value  | 85 kA  |
| • at 500 V / rated value  | 55 kA  |
| • at 690 V / rated value  | 36 kA  |
| <b>short-circuit current making capacity (Icm)</b>  |  |
| • at 240 V / rated value  | 330 kA   |
| • at 415 V / rated value  | 187 kA   |
| • at 440 V / rated value  | 187 kA   |
| • at 500 V / rated value  | 121 kA   |
| • at 690 V / rated value  | 76 kA  |
| <b>Connections</b>  |  |
| arrangement of electrical connectors / for main current circuit   | Main connection at the front, extension enclosed |
| type of electrical connection / for main current circuit  | busbar connection                                |
| <b>Mechanical Design</b>  |  |
| <b>height</b>   | 296 mm   |
| <b>width</b>  | 210 mm   |
| <b>depth</b>  | 183 mm   |
| <b>fastening method</b>   | fixed mounting                                   |
| <b>Net Weight</b>   | 16.431 kg  |
| <b>Environmental conditions</b>   |  |
| <b>ambient temperature / during operation</b>   |  |
| • minimum   | -25 °C   |
| • maximum   | 70 °C  |
| <b>ambient temperature / during storage</b>   |  |
| • minimum   | -40 °C   |
| • maximum   | 70 °C  |
| <b>Further information</b>  |  |
| <b>Information on the packaging</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>  |  |
| <b>Information for data generation and storage</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>   |  |
| <b>Industry Mall (Online ordering system)</b><br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2716-2BE05-3FA5-Z F11+S22">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2716-2BE05-3FA5-Z F11+S22</a>  |  |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA2716-2BE05-3FA5-Z F11+S22">https://support.industry.siemens.com/cs/ww/en/ps/3VA2716-2BE05-3FA5-Z F11+S22</a>  |  |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2716-2BE05-3FA5-Z F11+S22">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2716-2BE05-3FA5-Z F11+S22</a> |  |
| <b>CAx-Online-Generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>  |  |
| <b>Tender specifications</b><br><a href="http://www.siemens.com/specifications">http://www.siemens.com/specifications</a>   |  |



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