

fixed-mounted molded case circuit breaker w. handle frame 1600; 4AUX and trip alarm switch S24; lcu "H" lcu=85kA @ 415V, 3-pole ETU650, LSI, In=1250A display, meas., comm. function Ir=500...1250A Isd=0.6...10xIn, li=1.5...15xIn N conductor protec. adjustable opt. w. ext. CT; up to 200% front bus connector offset With optional communication connection including integrated breaker connect 24 V DC module, actuator COM ACT, COM RTC and COM PSS(as draw-out version) with Metering MF Advanced for enhanced protection Voltage tap at the top Without additional alarm switch assembly With mechanical calling without 2nd auxiliary release without 1st auxiliary release F12= Communication module COM042 Modbus RTU Gateway

Model	
product designation	Molded case circuit breaker
design of the product	MCCB
design of the actuating element	toggel handle actuator
type of the driving mechanism	manual operating mechanism
type of the driving mechanism / motor drive	No
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	1 250 A
continuous current / rated value / maximum	1 250 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	47 W
• maximum	141 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	750 A
• full-scale value	12 500 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	500 A
Product details	
product component	
• trip indicator	Yes

• voltage trigger	No
• undervoltage release	No
<b>product extension / optional / motor drive</b>	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 front, rail widening included
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>	22.94 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> <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> <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>	
<b>Information- and Downloadcenter (Catalogs, Brochures,...)</b> <a href="https://www.siemens.com/lowvoltage/catalogs">https://www.siemens.com/lowvoltage/catalogs</a>	
<b>Industry Mall (Online ordering system)</b> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-6FE06-0AA0-Z_F12">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-6FE06-0AA0-Z_F12</a>	
<b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b> <a href="https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-6FE06-0AA0-Z_F12">https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-6FE06-0AA0-Z_F12</a>	
<b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b> <a href="https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-6FE06-0AA0-Z_F12">https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-6FE06-0AA0-Z_F12</a>	
<b>CAX-Online-Generator</b> <a href="https://www.siemens.com/cax">https://www.siemens.com/cax</a>	
<b>Tender specifications</b> <a href="https://www.siemens.com/specifications">https://www.siemens.com/specifications</a>	

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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