


fixed-mounted molded case circuit breaker w. handle frame 1600; 4AUX and trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 4-pole, left ETU650, LSI, In=1250A display, meas., comm. function Ir=500...1250A I_{sd}=0.6...10xIn, Ii=1.5...15xIn N conductor protec. adjustable OFF, 50%, 100%, 150%, 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 With trip alarm switch TAS and trip alarm switch S25 With mechanical calling without 2nd auxiliary release with 1st auxiliary release, ST Shunt release 24 V AC/DC F03= Communication module COM041 PROFINET 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	4
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	M
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	Yes
• undervoltage release	No

product extension / optional / motor drive	No
Product function	
product function	
• grounding protection	No
• communication function	Yes
• phase failure detection	Yes
Display and operation	
display version	With full graphics display
Short circuit	
operating short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	55 kA
• at 440 V / rated value	55 kA
• at 500 V / rated value	36 kA
• at 690 V / rated value	25 kA
maximum short-circuit current breaking capacity (Icu)	
• at 240 V / rated value	100 kA
• at 415 V / rated value	55 kA
• at 440 V / rated value	55 kA
• at 500 V / rated value	36 kA
• at 690 V / rated value	25 kA
short-circuit current making capacity (Icm)	
• at 240 V / rated value	220 kA
• at 415 V / rated value	121 kA
• at 440 V / rated value	121 kA
• at 500 V / rated value	75.6 kA
• at 690 V / rated value	53 kA
Connections	
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
Mechanical Design	
fastening method	fixed mounting
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	70 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	70 °C
Further information	
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2712-5FE16-1AA1-Z_F03 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2712-5FE16-1AA1-Z_F03 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2712-5FE16-1AA1-Z_F03 CAX-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications	
 	

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