

fixed-mounted molded case circuit breaker frame 1600; with RTC and 4AUX trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 3-pole ETU320, LI, In=800A rotary coding switch Ir=320...800A li=1.5...15 x In N conductor protec. adjustable opt. w. ext. CT; up to 200% straight bus connector extended No communication connection, no measurement function Motorized operating mechanism 24...30 V AC/DC incl. S21 spring energy store signaling switch With electr. and mech. calling Switch-on solenoid (CC) 24 V AC/DC without 2nd auxiliary release with 1st auxiliary release, ST Shunt release 24 V AC/DC

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	ETU320
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	800 A
continuous current / rated value / maximum	800 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	19.3 W
• maximum	57.9 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 current-dependent overload release / initial value	320 A
Product details	
product component	
• trip indicator	Yes
• voltage trigger	Yes
• undervoltage release	No
Product function	
product function	
• grounding protection	No
• communication function	No
Display and operation	
display version	Without display
Short circuit	
operating short-circuit current breaking capacity (Ics)	
• at 240 V / rated value	100 kA

<ul style="list-style-type: none"> • at 415 V / rated value • at 440 V / rated value • at 500 V / rated value • at 690 V / rated value 	55 kA 55 kA 36 kA 25 kA
maximum short-circuit current breaking capacity (Icu)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 440 V / rated value • at 500 V / rated value • at 690 V / rated value 	100 kA 55 kA 55 kA 36 kA 25 kA
short-circuit current making capacity (Icm)	
<ul style="list-style-type: none"> • at 240 V / rated value • at 415 V / rated value • at 440 V / rated value • at 500 V / rated value • at 690 V / rated value 	220 kA 121 kA 121 kA 75.6 kA 53 kA

Connections

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

Mechanical Design

height	296 mm
width	210 mm
depth	183 mm
fastening method	fixed mounting
Net Weight	15.74 kg

Environmental conditions

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

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2780-1AB05-1BA1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2780-1AB05-1BA1>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2780-1AB05-1BA1

CAX-Online-Generator

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

Tender specifications

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



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