

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% nut keeper kit 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 with 2nd auxiliary release UVR, instant Undervoltage 24 V AC/DC with 1st auxiliary release, ST Shunt release 24 V AC/DC

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	MCCB
product variations	Selective Applications
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
size of the circuit-breaker	1600 A
mechanical service life (operating cycles) / typical	1 000
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	Yes
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
• 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 on front side
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	14 kg
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=3VA2780-1AB03-1BB1 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA2780-1AB03-1BB1 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2780-1AB03-1BB1 CAX-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications	



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