SIEMENS

Data sheet 3VA2780-1AC13-0AA0

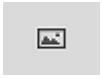
fixed-mounted molded case circuit breaker frame 1600; with RTC and 4AUX trip alarm switch S24; Icu "M" Icu=55kA @ 415V, 4-pole, left ETU350, LSI, In=800A rotary coding switch Ir=320...800A Isd=1...10xIn, Ii=1.5...15xIn N conductor protec. adjustable OFF, 50%, 100%, 200% nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	MCCB
design of the actuating element	spring actuator
type of the driving mechanism	without motor drive
type of the driving mechanism / motor drive	No
design of the overcurrent release	ETU350
General technical data	
number of poles	4
size of the circuit-breaker	1600 A
mechanical service life (switching cycles) / typical	1 000
circuit-breaker / Design	3VA2
Voltage	
insulation voltage / rated value	1 000 V
operating voltage / at AC / at 50/60 Hz / rated value	690 V
protection class IP	IP20
protection class IP / on the front	IP20
protection function of the overcurrent release	LSI
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	19.3 W
Current	
continuous current / rated value	800 A
adjustable current response value current	
● of the current-dependent overload release / full-scale value	800 A
● of instantaneous short-circuit trip unit / initial value	1 200 A
● of instantaneous short-circuit trip unit / full-scale value	12 000 A
short-time withstand current (Icw)	
● limited to 1 s / rated value	20 kA
● at AC / at 415 V / limited to 0.5 s / rated value	20 kA
Main circuit	
operational current	
● at 40 °C / rated value	800 A
● at 50 °C / rated value	800 A
● at 55 °C / rated value	800 A
● at 60 °C / rated value	800 A
● at 65 °C / rated value	750 A
● at 70 °C / rated value	700 A
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	800 A
● of the short-time delayed short-circuit release / full-scale value	8 000 A
adjustable current response value current / of the current-dependent overload release / initial value	320 A
product component	
● trip indicator	Yes
● voltage trigger	No
● undervoltage release	No
product extension / optional / motor drive	Yes
Product function	
product function	
● grounding protection	No
Display and operation	
display version	Without display
Short circuit	
breaking capacity operating short-circuit current (Ics)	
● at 415 V / rated value	55 kA
● at 500 V / rated value	36 kA
● at 690 V / rated value	25 kA
breaking capacity maximum short-circuit current (Icu)	
● 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
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	280 mm
depth	183 mm
fastening method	fixed mounting
net weight	16 kg
Environmental conditions	
ambient temperature / during operation	
● minimum	-25 °C
● maximum	70 °C
ambient temperature / during storage	
● minimum	-40 °C
● maximum	70 °C
Certificates	
reference code	
● acc. to DIN EN 61346-2	Q
● acc. to IEC 81346-2	Q

Further information

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2780-1AC13-0AA0
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3VA2780-1AC13-0AA0
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2780-1AC13-0AA0
Tender specifications
http://www.siemens.com/specifications



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