3VA1580-5MH32-0AA0

Data sheet



circuit breaker 3VA1 IEC frame 1000 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=800A without overload protection short-circuit protection Ii=6...12 x In nut keeper kit

Model		
product brand name	SENTRON	
product designation	Molded case circuit breaker	
Product version	Starter protection	
design of the overcurrent release	TM120M	
protection function of the overcurrent release	T	
number of poles	3	
General technical data		
rated insulation voltage Ui	800 V	
power loss [W] / maximum	210 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	70 W	
mechanical service life (switching cycles) / typical	10 000	
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	4 600	
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	3 200	
Neutral conductors / upgradeable/retrofittable	No	
ground-fault monitoring version	Without	
product function		
 communication function 	No	
 phase failure detection 	No	
 other measurement function 	No	
Current		
Max. rated operational current of the frame size	1 000 A	
Courant permanent assigné lu	800 A	
operational current		
● at 40 °C	800 A	
● at 45 °C	800 A	
● at 50 °C	800 A	
● at 55 °C	780 A	
● at 60 °C	761 A	
● at 65 °C	741 A	
• at 70 °C	722 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	M	
breaking capacity maximum short-circuit current (Icu)		
• at 240 V	85 kA	

Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature	No IP40 -25 °C 70 °C -40 °C 80 °C	EMC	Declaration of Conformity
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum Certificates	IP40 -25 °C 70 °C -40 °C 80 °C		
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum	IP40 -25 °C 70 °C -40 °C		
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum	IP40 -25 °C 70 °C -40 °C		
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum	IP40 -25 °C 70 °C		
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum	IP40 -25 °C		
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature	IP40		
product extension / optional / motor drive Environmental conditions protection class IP / on the front			
product extension / optional / motor drive Environmental conditions			
product extension / optional / motor drive	No		
	No		
Accessories			
number of CO contacts / for auxiliary contacts	0		
Auxiliary circuit			
screw, width x thickness, max.			
screw, width x thickness , min. Type of connectable conductor cross-section, connection	50 x 28 mm		
Type of connectable conductor cross-section, connection	20 x 4 mm		
type of electrical connection / for main current circuit	nut keeper kit on both ends		
arrangement of electrical connectors / for main current circuit	Front terminal		
Connections			
depth	120 mm		
depth [in]	4.72 in		
Width	210 mm		
width [in]	8.27 in		
Height	320 mm		
height [in]	12.6 in		
Mechanical Design			
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Adjustable response value current / li max.	9 600 A		
Adjustable response value current / li min.	4 800 A		
Adjustable parameters			
• at 690 V	52.5 kA		
● at 500 V	75.6 kA		
• at 440 V	121 kA		
• at 415 V	121 kA		
• at 240 V	187 kA		
short-circuit current making capacity (Icm)			
• at 690 V	19 kA		
● at 500 V	36 kA		
• at 440 V	55 kA		
• at 415 V	55 kA		
• at 240 V	85 kA		
breaking capacity operating short-circuit current (Ics)			
• at 690 V	25 kA		
• at 500 V	36 kA		
● at 440 V	55 kA		
• at 415 V	55 kA		





Miscellaneous







Declaration of Test Certificates Marine / Shipping other

Conformity

UK Declaration of Conformity **Miscellaneous**

Special Test Certificate





Miscellaneous

other

Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA1580-5MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1580-5MH32-0AA0

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

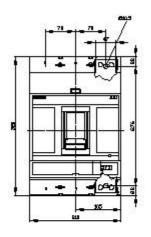
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1580-5MH32-0AA0

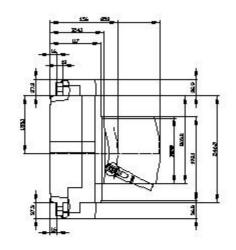
CAx-Online-Generator

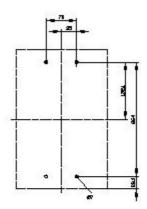
http://www.siemens.com/cax

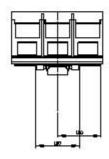
Tender specifications

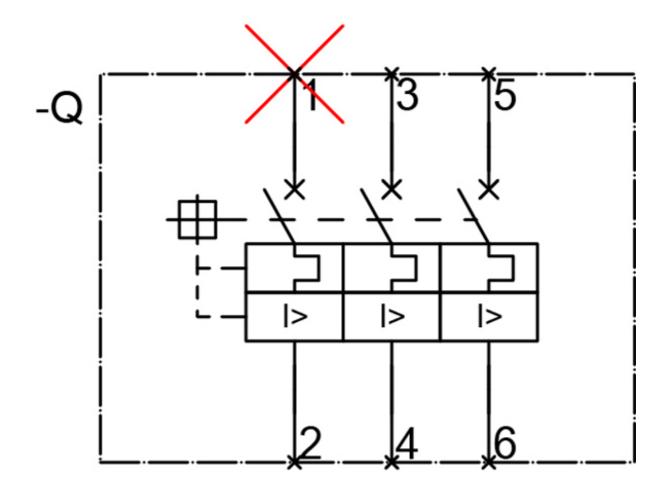
http://www.siemens.com/specifications











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