## SIEMENS

## Data sheet

## 3VA1580-6MH32-0AA0



circuit breaker 3VA1 IEC frame 1000 breaking capacity class H Icu=70kA @ 415V 3-pole, starter protection TM120M, AM, In=800A without overload protection short-circuit protection Ii=6...12 x In nut keeper kit

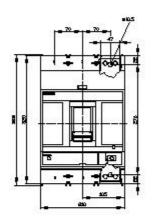
Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
Product version	Starter protection
design of the overcurrent release	TM120M
protection function of the overcurrent release	1
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
power loss [W] / maximum	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	
<ul> <li>communication function</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	No
<ul> <li>other measurement function</li> </ul>	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	Н
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	100 kA

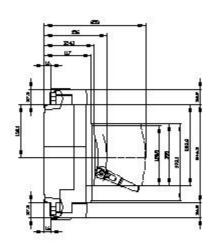
• at 415 V	70 kA	
• at 440 V	70 kA	
• at 500 V	55 kA	
• at 690 V	35 kA	
breaking capacity operating short-circuit current (lcs)		
• at 240 V	100 kA	
• at 415 V	70 kA	
• at 440 V	70 kA	
• at 500 V	55 kA	
• at 690 V	19 kA	
short-circuit current making capacity (Icm)		
• at 240 V	220 kA	
• at 415 V	154 kA	
• at 440 V	154 kA	
• at 500 V	121 kA	
• at 690 V	73.5 kA	
Adjustable parameters	10.0 104	
	4 000 A	_
Adjustable response value current / li min.	4 800 A	
Adjustable response value current / li max.	9 600 A	
Ground fault protection / tripping switchable / I2t=ON/OFF	No	
Mechanical Design		
height [in]	12.6 in	
Height	320 mm	
width [in]	8.27 in	
Width	210 mm	
depth [in]	4.72 in	
depth	120 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front terminal	
type of electrical connection / for main current circuit	nut keeper kit on both ends	
Type of connectable conductor cross-section, connection screw, width x thickness , min.	20 x 4 mm	
Type of connectable conductor cross-section, connection screw, width x thickness , max.	50 x 28 mm	
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	No	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
during operation / minimum	-25 °C	
during operation / maximum	70 °C	
during operation / maximum     during storage / minimum	-40 °C	
during storage / maximum	80 °C	
Certificates		
reference code / acc. to IEC 81346-2	Q	
		Declaration of
General Product Approval	EMC	Conformity
Miscellaneo		~ ~
		EG-Konf.
Declaration of Test Certificates	Marine / Shipping	other

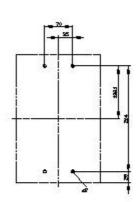
Conformity					
<u>UK Declaration of</u> <u>Conformity</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	Lloyd's Register uis	DNV-GL DNV-GL	<u>Miscellaneous</u>
other					
Miscellaneous					
Further information					

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=3VA1580-6MH32-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA1580-6MH32-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1580-6MH32-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

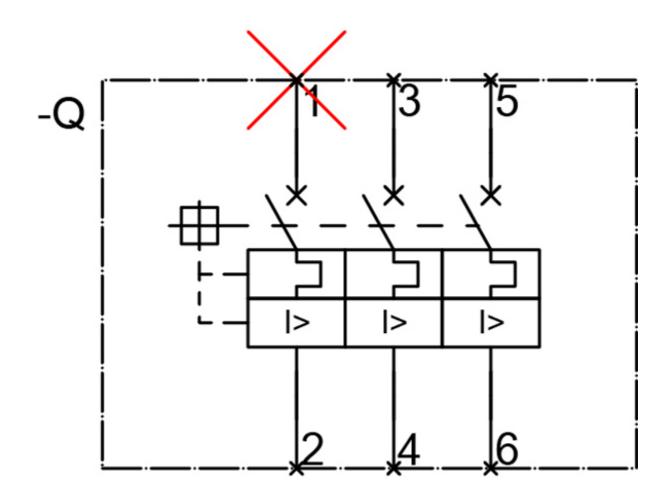
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