SIEMENS

Data sheet

3VM1216-5MH32-0AA0



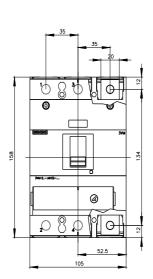
circuit breaker 3VM1 IEC frame 250 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=160A without overload protection short-circuit protection Ii=7...16 x In nut keeper kit

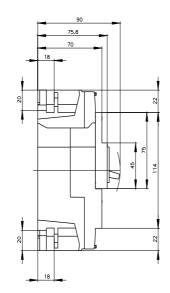
Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Startetptotection
design of the overcurrent release	TM120M
protection function of the overcurrent release	
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / at 50/60 Hz / rated value	500 V
operating voltage / at DC / rated value	500 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	33 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	11 W
mechanical service life (operating cycles) / typical	15 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Without
product function	
 communication function 	No
 phase failure detection 	No
 other measurement function 	No
Net Weight	1.574 kg
Current	
operational current	
● at 40 °C	160 A
● at 45 °C	160 A
● at 50 °C	160 A
● at 55 °C	155.6 A
● at 60 °C	151.2 A
• at 65 °C	146.8 A
• at 70 °C	142.4 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Μ
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
• at 500 V	15 kA

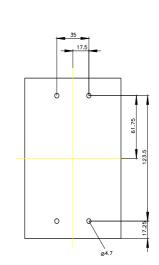
operating short-circuit current breaking capacity (lcs)	
• at 240 V	63 kA
• at 415 V	41 kA
• at 440 V	27 kA
• at 500 V	10 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	76 kA
• at 500 V	30 kA
design of short-circuit protection	For switching capacity values in DC power systems, see the 3VA Molded Case Circuit Breaker Manual; link available under Service & Support in the last chapter
Adjustable parameters	
adjustable response value setting current (li) / for I-tripping	
• minimum	1 120 A
• maximum	2 560 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• maximum	2 560 A
product function / grounding protection	No
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
• trip indicator	No
height [in]	6.22 in
height	 158 mm
width [in]	4.13 in
width	105 mm
depth [in]	2.76 in
depth	70 mm
Connections	7011111
	Front connection
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	13 x 1 mm
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8 mm
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Silver
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	
during operation / minimum	-25 °C
 during operation / maximum 	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
Approvals / Certificates	
General Product Approval	
constant rouger Approval	

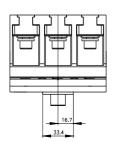
<u>Confirmation</u>	CE EG-Konf.	UK CA		DE	<u>Miscellaneous</u>		
General Product Ap- proval	Test Certificates	Marine / Shipping	other		Environment		
EHC	<u>Miscellaneous</u>		<u>Confirmation</u>	<u>Miscellaneous</u>	Environmental Con- firmations		
Environment							
Environmental Con- firmations							
Further information Information on the packaging							
Information- and Down http://www.siemens.com Industry Mall (Online of https://mall.industry.sier Service&Support (Mar https://support.industry.sier Image database (produ	ordering system) nens.com/mall/en/en/Ca nuals, Certificates, Cha siemens.com/cs/ww/en/r uct images, 2D dimensi siemens.com/bilddb/cax	Brochures,) talog/product?mlfb=3VM1 racteristics, FAQs,) ps/3VM1216-5MH32-0AAC) s, device circuit diagrams	s,)			

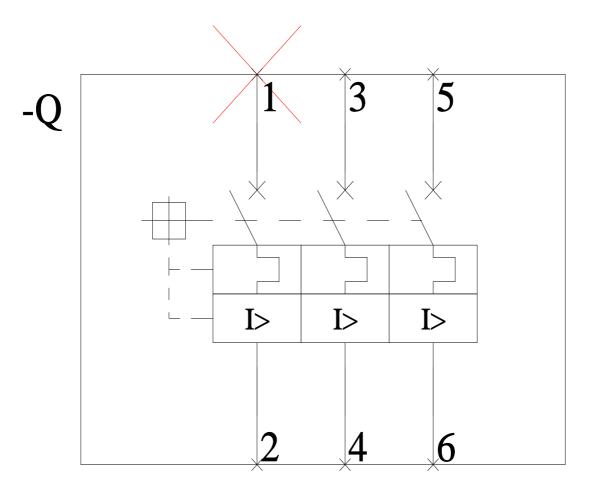
Tender specifications http://www.siemens.com/specifications











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