SIEMENS

Data sheet

3VM1220-3EE32-0AA0



circuit breaker 3VM1 IEC frame 250 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM220, ATFM, In=200A overload protection Ir=140A...200A short-circuit protection Ii=10 x In nut keeper kit

Model			
product brand name	SENTRON		
product designation	Molded case circuit breaker		
Product version	Line protection		
design of the overcurrent release	TM220		
protection function of the overcurrent release	L		
number of poles	3		
General technical data			
rated insulation voltage Ui	800 V		
Max. rated operational voltage Ue with AC 50/60Hz	500 V		
Max. rated operational voltage Ue with DC	500 V		
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	42 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14 W		
mechanical service life (switching cycles) / typical	15 000		
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	6 000		
Neutral conductors / upgradeable/retrofittable	No		
ground-fault monitoring version	Without		
product function			
 communication function 	No		
 other measurement function 	No		
Net Weight	1.598 kg		
Current			
operational current			
• at 40 °C	200 A		
• at 45 °C	200 A		
• at 50 °C	200 A		
• at 55 °C	194 A		
• at 60 °C	188 A		
• at 65 °C	182 A		
• at 70 °C	176 A		
Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	Ν		
breaking capacity maximum short-circuit current (Icu)			
• at 240 V	36 kA		
• at 415 V	25 kA		
• at 440 V	16 kA		
● at 500 V	7 kA		

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breaking capacity operating short-circuit current (lcs)					
• at 240 V	27 kA				
• at 415 V		18 kA			
• at 440 V	12 kA				
• at 500 V	5 kA	5 kA			
short-circuit current making capacity (Icm)					
• at 240 V	76 kA				
• at 415 V	53 kA				
• at 440 V	32 kA				
• at 500 V	12 kA				
design of short-circuit protection	Moldee	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 current / li max.	2 000 /	A			
Ground fault protection / tripping switchable / I2t=ON/OFF	No	No			
Mechanical Design					
height [in]	6.22 in				
Height	158 mi	158 mm			
width [in]	4.13 in	4.13 in			
Width	105 mi	105 mm			
depth [in]	2.76 in	2.76 in			
depth	70 mm	70 mm			
Connections					
arrangement of electrical connectors / for main current circuit	Front o	Front connection			
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					
product component					
undervoltage release	No	No			
voltage trigger	No				
trip indicator	No				
number of CO contacts / for auxiliary contacts	0				
Accessories					
product extension / optional / motor drive	No	No			
Environmental conditions					
protection class IP / on the front	IP40	IP40			
ambient temperature					
 during operation / minimum 	-25 °C	-25 °C			
 during operation / maximum 	70 °C				
during storage / minimum	-40 °C				
during storage / maximum	80 °C				
Certificates					
reference code / according to IEC 81346-2	Q				
General Product Approval		Declaration of Conformity	Test Certificates		
Confirmation Miscellaneous		CE EG-Konf.	<u>Miscellaneous</u>		

other

Miscellaneous

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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=3VM1220-3EE32-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VM1220-3EE32-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1220-3EE32-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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