SIEMENS

Data sheet



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM220, ATFM, In=25A overload protection Ir=18A...25A short-circuit protection Ii=12.8 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	Ц		
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	9 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.83 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	970 g		
Current			
operational current			
• at 40 °C	25 A		
● at 45 °C	25 A		
• at 50 °C	25 A		
● at 55 °C	24 A		
• at 60 °C	24 A		
• at 65 °C	23 A		
● at 70 °C	23 A		
Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	N		
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		

breaking capacity operating short-circuit current (Ics)					
• at 240 V	27 kA				
• at 415 V	18 kA				
• at 440 V	12 kA				
• at 500 V	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	For switching capacity values in DC power systems, Molded Case Circuit Breaker Manual; link available Support in the last chapter				
Adjustable parameters					
Adjustable response value current / li max.	320 A				
Ground fault protection / tripping switchable / I2t=ON/OFF	No				
Mechanical Design					
height [in]	5.12 in				
Height	130 mm				
width [in]	3 in				
Width	76.2 mm				
depth [in]	2.76 in				
depth	70 mm				
Connections					
arrangement of electrical connectors / for main current circuit	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)	Tin				
Auxiliary circuit					
product component					
 undervoltage release 	No				
 voltage trigger 	No				
trip indicator	No				
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 storage / minimum 	-40 °C				
 during storage / maximum 	80 °C				
Certificates					
reference code / according to IEC 81346-2	Q				
		Declaration of			

Confirmation





Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping











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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=3VM1125-3EE32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1125-3EE32-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1125-3EE32-0AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

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