SIEMENS

Data sheet

Model



circuit breaker 3VM1 IEC frame 100 breaking capacity class N Icu=25kA @ 415V 4-pole, line protection TM210, FTFM, In=25A overload protection Ir=25A, not adjustable short-circuit protection Ii=12.8 x In N conductor unprotected nut keeper kit

Model			
product brand name	SENTRON		
product designation	Molded case circuit breaker		
Product version	Line protection		
design of the overcurrent release	TM210		
protection function of the overcurrent release	Ш		
number of poles	4		
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	12 000		
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	2 000		
Neutral conductors / upgradeable/retrofittable	No		
ground-fault monitoring version	Without		
product function			
 communication function 	No		
other measurement function	No		
Net Weight	1.3 kg		
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	5 kA		

General Product Approval		Conformity		
		Declaration of		
reference code / according to IEC 81346-2	Q			
Certificates				
during storage / maximum during storage / maximum	80 °C			
during operation / maximum during storage / minimum	-40 °C			
during operation / minimumduring operation / maximum	-25 °C 70 °C			
ambient temperature	25 °C			
protection class IP / on the front	IP40			
Environmental conditions	ID40			
product extension / optional / motor drive	No			
	No			
Accessories	·			
number of CO contacts / for auxiliary contacts	0			
trip indicator	No			
voltage trigger	No			
product component • undervoltage release	No			
Auxiliary circuit				
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Tin			
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver			
arrangement of electrical connectors / for main current circuit	Front connection			
Connections				
depth	70 mm			
depth [in]	2.76 in			
Width	101.6 mm			
width [in]	4 in			
Height Height	130 mm			
height [in]	5.12 in			
Mechanical Design	ne -			
Ground fault protection / tripping switchable / I2t=ON/OFF	No			
design of the N-conductor protection	Without			
Adjustable response value current / li max.	320 A			
Adjustable parameters	Support in the last chapter			
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 &			
● at 500 V	8 kA			
• at 440 V	32 kA			
• at 415 V	53 kA			
• at 240 V	76 kA			
short-circuit current making capacity (Icm)				
• at 500 V	3 kA			
• at 440 V	8 kA			
• at 415 V	12 kA			
 at 240 V 	18 kA			



Confirmation



Miscellaneous





Declaration of	Test Certificates	Marina / Chinning	
Conformity		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=3VM1025-3ED42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1025-3ED42-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1025-3ED42-0AA0

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

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