SIEMENS

Data sheet

3VM1225-4ED32-0AA0



circuit breaker 3VM1 IEC frame 250 breaking capacity class S Icu=36kA @ 415V 3-pole, line protection TM210, FTFM, In=250A overload protection Ir=250A, not adjustable 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	TM210
protection function of the overcurrent release	LI
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	57 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	19 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	1.604 kg
Current	
operational current	
• at 40 °C	250 A
● at 45 °C	250 A
• at 50 °C	250 A
• at 55 °C	243.3 A
• at 60 °C	236.5 A
● at 65 °C	229.8 A
• at 70 °C	223 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	S
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	55 kA
• at 415 V	36 kA
• at 440 V	25 kA
• at 500 V	10 kA





breaking capacity operating short-circuit current (Ics)	
• at 240 V	41 kA
• at 415 V	27 kA
• at 440 V	18 kA
• at 500 V	7 kA
short-circuit current making capacity (Icm)	
• at 240 V	121 kA
• at 415 V	76 kA
• at 440 V	53 kA
• at 500 V	17 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 current / li max.	2 500 A
Ground fault protection / tripping switchable / I2t=ON/OFF	F No
Mechanical Design	
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	
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) $$	Silver
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
General Product Approval	
Confirmation CI	
	B 🖄 FAI
CCC CB	B VDE B
Declaration of Conformity Test Certi	tificates Marine / Shipping
Declaration of Conformity Test Certi	tificates Marine / Shipping



Miscellaneous







Marine / Shipping



Miscellaneous

other

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=3VM1225-4ED32-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VM1225-4ED32-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1225-4ED32-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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