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Data sheet

3VM1225-4ED42-0AA0



circuit breaker 3VM1 IEC frame 250 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM210, FTFM, In=250A overload protection Ir=250A, not adjustable short-circuit protection Ii=10 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	LI
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	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	2.066 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





Certificates reference code / according to IEC 81346-2	Q
 during storage / maximum 	80 °C
during storage / minimum	-40 °C
 during operation / maximum 	70 °C
 during operation / minimum 	-25 °C
ambient temperature	
protection class IP / on the front	IP40
Environmental conditions	
product extension / optional / motor drive	No
Accessories	
number of CO contacts / for auxiliary contacts	0
trip indicator	No
voltage trigger	No
 undervoltage release 	No
product component	
Auxiliary circuit	
of the switch (N, 2, 4, 6)	
design of the surface / of the connections / on the bottom	Silver
the switch (N, 1, 3, 5)	
circuit design of the surface / of the connections / on the top of	Silver
arrangement of electrical connectors / for main current	Front connection
Connections	
depth	70 mm
depth [in]	2.76 in
Width	140 mm
width [in]	5.51 in
Height	158 mm
height [in]	6.22 in
Mechanical Design	
Ground fault protection / tripping switchable / I2t=ON/OFF	No
design of the N-conductor protection	Without
Adjustable response value current / li max.	2 500 A
Adjustable parameters	
ů i	Molded Case Circuit Breaker Manual; link available under Service & Support in the last chapter
design of short-circuit protection	For switching capacity values in DC power systems, see the 3VA
• at 500 V	17 kA
• at 440 V	53 kA
• at 415 V	76 kA
• at 240 V	121 kA
short-circuit current making capacity (Icm)	
• at 500 V	7 kA
• at 440 V	18 kA
• at 415 V	41 kA 27 kA
• at 240 V	

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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=3VM1225-4ED42-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VM1225-4ED42-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1225-4ED42-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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