## **SIEMENS**

## **Data sheet**

Model



circuit breaker 3VM1 IEC frame 250 breaking capacity class N Icu=25kA @ 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	Ц
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	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	2.057 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	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

Confirmation Miscellaneous	Miscellaneous
General Product Approval	Declaration of Conformity Test Certificates
reference code / according to IEC 81346-2	Q
Certificates	
during storage / maximum	80 °C
during storage / minimum	-40 °C
during operation / maximum	70 °C
ambient temperature  ● during operation / minimum	-25 °C
protection class IP / on the front	IP40
Environmental conditions	ID40
product extension / optional / motor drive	No
Accessories	No
number of CO contacts / for auxiliary contacts	0
trip indicator  number of CO contacts / for auxiliary contacts	No 0
voltage trigger     trip indicator	No No
undervoltage release     veltage trigger	No
product component	Ti.
Auxiliary circuit	
of the switch (N, 2, 4, 6)	
the switch (N, 1, 3, 5)  design of the surface / of the connections / on the bottom	Silver
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 parameters  Adjustable response value current / li max.	2 500 A
Adiustable payametaya	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
<ul><li>at 440 V</li><li>at 500 V</li></ul>	32 kA 12 kA
• at 415 V	53 kA
• at 240 V	76 kA
short-circuit current making capacity (Icm)	
• at 500 V	5 kA
• at 440 V	12 kA
• at 415 V	18 kA
● at 240 V	27 kA
breaking capacity operating short-circuit current (lcs)	

LIIL

EG-Konf.

other

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=3VM1225-3ED42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1225-3ED42-0AA0

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VM1225-3ED42-0AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications

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