SIEMENS

Data sheet

3VM1220-4EE42-0AA0



circuit breaker 3VM1 IEC frame 250 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM220, ATFM, In=200A overload protection Ir=140A...200A 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	TM220
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	42 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14 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	200 A
● at 45 °C	200 A
• at 50 °C	200 A
● at 55 °C	194 A
• at 60 °C	188 A
● at 65 °C	182 A
• at 70 °C	176 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 • at 415 V • at 440 V • at 500 V short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V design of short-circuit protection Adjustable parameters Adjustable response value current / Ii max. design of the N-conductor protection Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design height [in]	41 kA 27 kA 18 kA 7 kA 121 kA 76 kA 53 kA 17 kA 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 2 000 A Without No
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design of the N-conductor protection Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design	
Ground fault protection / tripping switchable / I2t=ON/OFF Mechanical Design	No
Mechanical Design	
noight [m]	6.22 in
Height	158 mm
width [in]	5.51 in
Width	140 mm
depth [in]	2.76 in
depth [in]	70 mm
Connections	
arrangement of electrical connectors / for main current	Front connection
circuit design of the surface / of the connections / on the top of	Silver
the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom	Silver
of the switch (N, 2, 4, 6)	
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	u.
σοποιαι Γιοαμοί Αρμιοναι	
Confirmation CB	Miscellaneous FAI
ссс св	VDE De
Declaration of Conformity Test Certification	ates Marine / Shipping

ΟΛΛς 🖏



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=3VM1220-4EE42-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VM1220-4EE42-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1220-4EE42-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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