SIEMENS

Data sheet

3VM1116-4ED42-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 4-pole, line protection TM210, FTFM, In=160A overload protection Ir=160A, 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	38 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	12.67 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	1.253 kg
Current	
operational current	
• at 40 °C	160 A
● at 45 °C	160 A
• at 50 °C	160 A
• at 55 °C	158 A
• at 60 °C	155 A
● at 65 °C	153 A
• at 70 °C	150 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	7 kA





Declaration of Conformity Test Certificates Marine / Sh	ipping
	Miscellaneous ERIC CE EG-Konf.
General Product Approval	Declaration of Conformity
reference code / according to IEC 81346-2	Q
Certificates	
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)	
the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom	Tin
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	101.6 mm
width [in]	4 in
Height	130 mm
height [in]	5.12 in
Mechanical Design	
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Adjustable response value current / li max. design of the N-conductor protection	1 600 A Without
Adjustable parameters	4 000 A
	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	12 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	5 kA
● at 415 V ● at 440 V	27 kA 18 kA
• at 240 V	41 kA
breaking capacity operating short-circuit current (Ics)	

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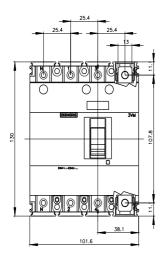
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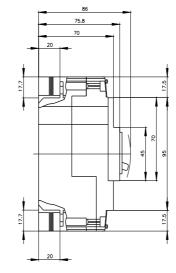
Miscellaneous

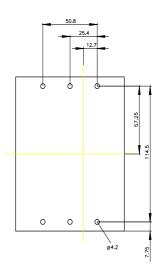
Further information

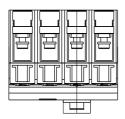
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