SIEMENS

Data sheet

3VM1140-3ED22-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 2-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A, not adjustable short-circuit protection Ii=10 x In nut keeper kit

Model				
product brand name	SENTRON			
product designation	Molded case circuit breaker			
design of the product	Line protection			
design of the overcurrent release	TM210			
protection function of the overcurrent release	LI			
number of poles	2			
General technical data				
insulation voltage / rated value	500 V			
operating voltage / at AC / at 50/60 Hz / rated value	415 V			
operating voltage / at DC / rated value	250 V			
operating voltage / at AC / rated value	415 V			
power loss [W] / maximum	7 W			
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.6 W			
mechanical service life (operating cycles) / typical	15 000			
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000			
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No			
ground-fault monitoring version	Without			
product function				
 communication function 	No			
other measurement function	No			
Net Weight	681 g			
Current				
operational current				
● at 40 °C	40 A			
● at 45 °C	40 A			
● at 50 °C	40 A			
● at 55 °C	39 A			
● at 60 °C	39 A			
● at 65 °C	38 A			
• at 70 °C	37 A			
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	Ν			
maximum short-circuit current breaking capacity (Icu)				
• at 240 V	36 kA			
• at 415 V	25 kA			
operating short-circuit current breaking capacity (Ics)				
• at 240 V	27 kA			
• at 415 V	18 kA			



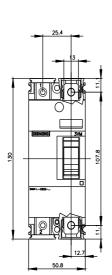
chort arouit auront making canacity (lom)			
 short-circuit current making capacity (Icm) at 240 V 	76 kA		
• at 415 V	53 kA		
design of short-circuit protection	53 KA For switching capacity values in DC power systems, see the 3VA Molded Case		
	Circuit Breaker Manual; link available under Service & Support in the last chapter		
Adjustable parameters			
product feature / for L-tripping / can be switched on/off	No		
adjustable response value setting current (Ir) / of the L-trip / with			
I2t characteristic			
● minimum	40 A		
• maximum	40 A		
adjustable response value delay time (tr) / for L-tripping / with l2t characteristic			
• minimum	1 s		
• maximum	1s		
adjustable response value setting current (li) / for I-tripping			
• minimum	400 A		
• maximum	400 A		
adjustable setting current (InN) / for N-tripping			
• minimum	0 A		
• maximum	0 A		
adjustable current response value current / of instantaneous short-circuit trip unit			
• maximum	400 A		
product function / grounding protection	No		
Mechanical Design			
product component			
 undervoltage release 	No		
 voltage trigger 	No		
trip indicator	No		
height [in]	5.12 in		
height	130 mm		
width [in]	2 in		
width	50.8 mm		
depth [in]	2.76 in		
depth	70 mm		
Connections			
arrangement of electrical connectors / for main current circuit	Front connection		
type of electrical connection / for main current circuit	nut keeper kit on both ends		
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm		
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6.5 mm		
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)	Tin		
Auxiliary circuit			
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		
Approvals / Certificates			
General Product Approval			

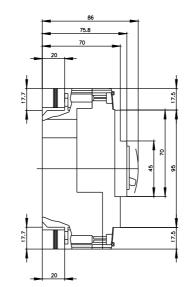


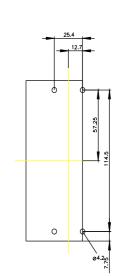
CE EG-Konf.	UK CA	<u>Confirmation</u>		UDE VDE	<u>Miscellaneous</u>		
General Product Ap- proval	Test Certificates	Marine / Shipping					
EHC	<u>Miscellaneous</u>	ABS	BUREAU VERITAS		Lloydis Register uxs		
Marine / Shipping	other		Environment				
KMRS	<u>Confirmation</u>	<u>Miscellaneous</u>	Environmental Con- firmations				
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875							
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=3VM1140-3ED22-0AA0							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VM1140-3ED22-0AA0							
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1140-3ED22-0AA0							
CAx-Online-Generator							

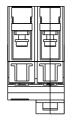
http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

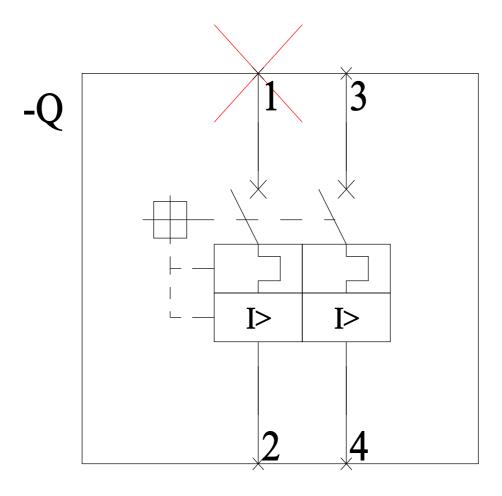












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