SIEMENS

Data sheet

3VM1150-3ED12-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 240V 1-pole, line protection TM210, FTFM, In=50A overload protection Ir=50A, 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	1				
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	125 V				
operating voltage / at AC / rated value	415 V				
power loss [W] / maximum	5 W				
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.9 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	375 g				
Current					
operational current					
• at 40 °C	50 A				
● at 45 °C	50 A				
● at 50 °C	50 A				
● at 55 °C	49 A				
● at 60 °C	48 A				
● at 65 °C	46 A				
● at 70 °C	45 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	25 kA				
● at 415 V	5 kA				
operating short-circuit current breaking capacity (Ics)					
• at 240 V	18 kA				
• at 415 V	3 kA				

short-circuit current making capacity (Icm)	
• at 240 V	53 kA
• at 415 V	8 kA
design of short-circuit protection	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	50 A
• maximum	50 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
minimum	1 s
• maximum	1s
adjustable current response value current / of	
instantaneous short-circuit trip unit	
• maximum	500 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]	1 in 25.4 mm
width depth [in]	2.76 in
depth	70 mm
Connections	
arrangement of electrical connectors / for main current	Front connection
circuit	
type of electrical connection / for main current circuit	nut keeper kit on both ends
type of connectable conductor cross-sections / for flat-bar	12 x 1 mm
terminal connection / minimum	
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	17 x 6.5 mm
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	Silver
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom	Silver
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	Silver
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	Silver Tin
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts	Silver Tin
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories	Silver Tin 0
terminal connection / minimum type of connectable conductor cross-sections / for flat-bar terminal connection / maximum design of the surface / of the connections / on the top of the switch (N, 1, 3, 5) design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive	Silver Tin 0
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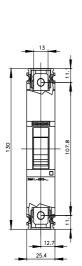
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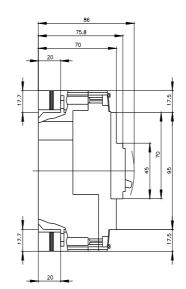
Declaration of Conformity	Test Certificates	Marine / Shipping					
CE EG-Konf.	<u>Miscellaneous</u>	ABS	B U R E A U VERITAS		KMRS		
other		Environment					
Confirmation	<u>Miscellaneous</u>	Environmental Con- firmations					
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business							
Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).							
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=3VM1150-3ED12-0AA0							
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VM1150-3ED12-0AA0							
Image database (p	roduct images, 2D dim	ension drawings, 3D mo	odels, device circuit d	diagrams,)			

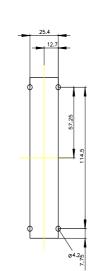
Image database (product images, 2D dimension drawings, 3D models, device circ http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1150-3ED12-0AA0 CAx-Online-Generator http://www.siemens.com/cax

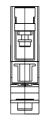
Tender specifications

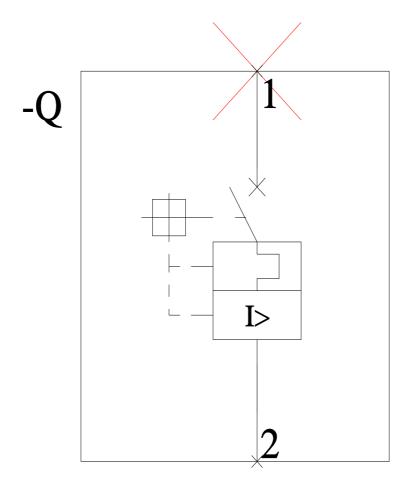
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