SIEMENS

Data sheet

3VM1150-4ED32-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class S Icu=36kA @ 415V 3-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	3	
General technical data		
insulation voltage / rated value	800 V	
operating voltage / at AC / at 50/60 Hz / rated value	500 V	
operating voltage / at DC / rated value	500 V	
operating voltage / at AC / rated value	690 V	
power loss [W] / maximum	15 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4.87 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	970 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	S	
maximum short-circuit current breaking capacity (Icu)		
• at 240 V	55 kA	
• at 415 V	36 kA	
● at 440 V	25 kA	
● at 500 V	7 kA	
operating short-circuit current breaking capacity (lcs)		

● at 240 V	41 kA	
• at 415 V	27 kA	
• at 440 V	18 kA	
● at 500 V	5 kA	
short-circuit current making capacity (Icm)		
• at 240 V	121 kA	
● at 415 V	76 kA	
● at 440 V	53 kA	
• at 500 V	12 kA	
design of short-circuit protection	For switching capacity values in DC power systems	see the 3VA
g	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	1 s	
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]	3 in	
width	76.2 mm	
	2.76 in	
depth [in]	70 mm	
depth	70 111111	
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	12 x 1 mm	
terminal connection / minimum		
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	
Certificates		
reference code / according to IEC 81346-2	Q	
		Declaration of
General Product Approval		Conformity



Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous









other Environment

<u>Confirmation</u> <u>Miscellaneous</u>

Environmental Confirmations

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=3VM1150-4ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1150-4ED32-0AA0

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

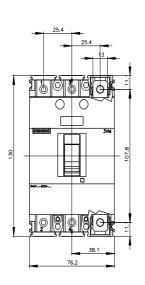
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1150-4ED32-0AA0

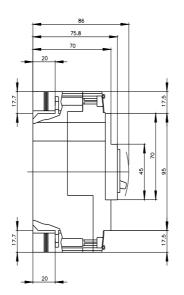
CAx-Online-Generator

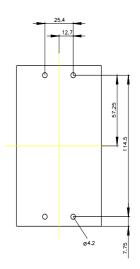
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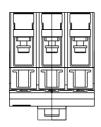
Tender specifications

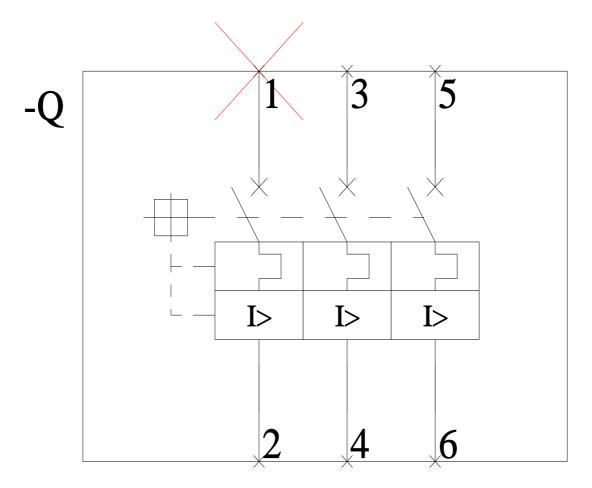
http://www.siemens.com/specifications











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