SIEMENS

Data sheet

3VM1120-3ED32-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-pole, line protection TM210, FTFM, In=20A overload protection Ir=20A, not adjustable short-circuit protection Ii=16 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	12 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	4 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	965 g
Current	
operational current	
● at 40 °C	20 A
● at 45 °C	20 A
● at 50 °C	20 A
● at 55 °C	20 A
• at 60 °C	19 A
• at 65 °C	19 A
● at 70 °C	19 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	N
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	36 kA
• at 415 V	25 kA
• at 440 V	16 kA
• at 500 V	7 kA
operating short-circuit current breaking capacity (lcs)	

General Product Approval		Conformity
		Declaration of
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	
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	
design of the surface / of the connections / on the top of	Silver	
terminal connection / maximum		
type of connectable conductor cross-sections / for flat-bar	17 x 6.5 mm	
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	12 x 1 mm	
type of electrical connection / for main current circuit	nut keeper kit on both ends	
circuit		
arrangement of electrical connectors / for main current	Front connection	
Connections		
depth	70 mm	
depth [in]	2.76 in	
width	76.2 mm	
width [in]	3 in	
height [in] height	5.12 m 130 mm	
trip indicator	NO 5.12 in	
voltage trigger trip indicator	No	
undervoltage release	No	
product component		
Mechanical Design		
product function / grounding protection	No	
• maximum	320 A	
instantaneous short-circuit trip unit		
adjustable current response value current / of		
• maximum	1 s	
minimum	1 s	
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic		
• maximum	20 A	
• minimum	20 A	
/ with I2t characteristic		
adjustable response value setting current (Ir) / of the L-trip		
product feature / for L-tripping / can be switched on/off	No	
Adjustable parameters		
	Molded Case Circuit Breaker Manual; link available Support in the last chapter	under Service &
design of short-circuit protection	For switching capacity values in DC power systems	, see the 3VA
• at 500 V	12 kA	
• at 440 V	32 kA	
• at 415 V	53 kA	
• at 240 V	76 kA	
 at 500 v short-circuit current making capacity (Icm) 		
• at 440 V • at 500 V	12 KA 5 kA	
● at 415 V ● at 440 V	18 kA 12 kA	
• at 240 V	27 kA	
a at 240 \/		

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	<u>Confirmation</u>		<u>Miscellaneous</u>	EHC	CE EG-Konf.	
Declaration of Conformity	Test Certificates	Marine / Shipping				
UK CA	<u>Miscellaneous</u>	ABS	BUREAU VERITAS		RMRS	
other		Environment				
<u>Miscellaneous</u>	<u>Confirmation</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=3VM1120-3ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1120-3ED32-0AA0

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

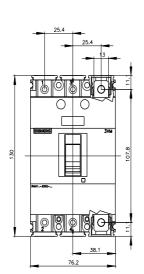
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1120-3ED32-0AA0

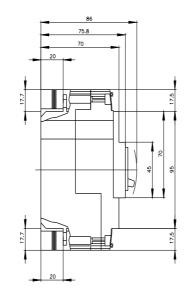
CAx-Online-Generator

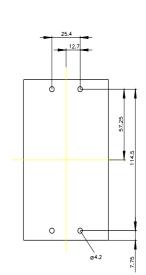
http://www.siemens.com/cax

Tender specifications

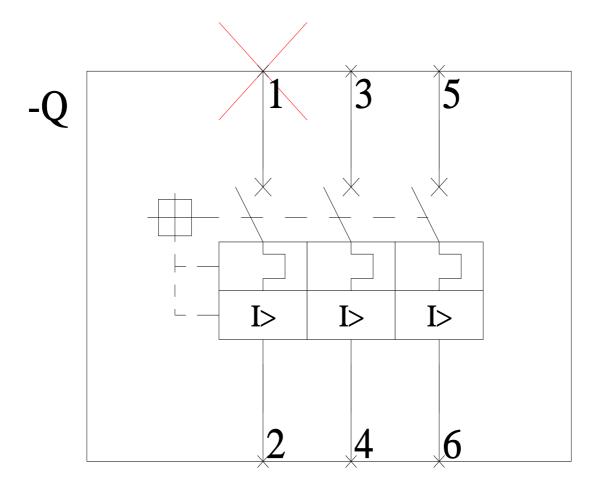
http://www.siemens.com/specifications







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