SIEMENS

Data sheet

3VM1140-3ED32-0AA0



circuit breaker 3VM1 IEC frame 160 breaking capacity class N Icu=25kA @ 415V 3-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	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	11 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	967 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 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)					

101011	0714	
• at 240 V	27 kA	
• at 415 V	18 kA	
• at 440 V	12 kA	
• at 500 V	5 kA	
 short-circuit current making capacity (Icm) at 240 V 	76 kA	
• at 240 V	53 kA	
• at 440 V	32 kA	
• at 500 V	12 kA	
design of short-circuit protection	For switching capacity values in DC power systems	see the $3V\Delta$
	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	1 s	
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]	3 in	
width	76.2 mm	
depth [in]	2.76 in 70 mm	
depth	70 11111	
Connections	F ()	
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	17 x 6.5 mm	
terminal connection / maximum design of the surface / of the connections / on the top of	Silver	
the switch (N, 1, 3, 5)		
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

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CCC	<u>Confirmation</u>	DE VDE	<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=3VM1140-3ED32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VM1140-3ED32-0AA0

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

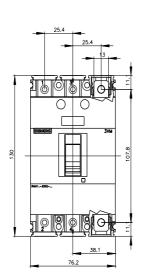
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1140-3ED32-0AA0

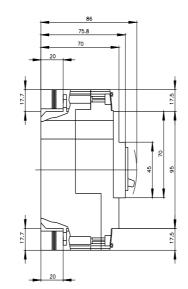
CAx-Online-Generator

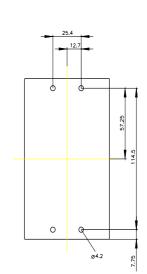
http://www.siemens.com/cax

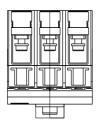
Tender specifications

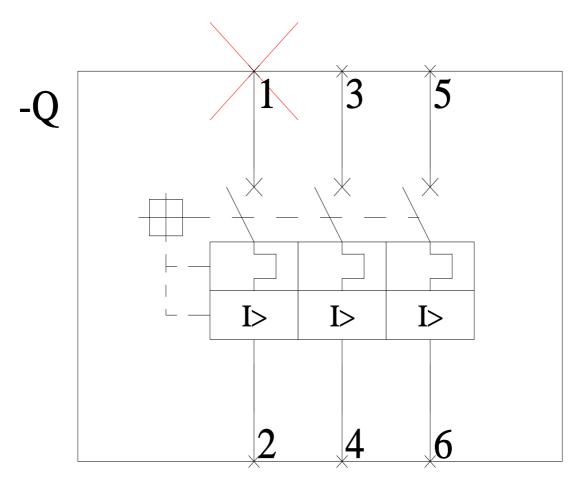
http://www.siemens.com/specifications











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