3VM1140-5MH32-0AA0

Data sheet



circuit breaker 3VM1 IEC frame 160 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=40A without overload protection short-circuit protection Ii=7...16 x In nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Startetptotection
design of the overcurrent release	TM120M
protection function of the overcurrent release	I
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	4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.2 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
phase failure detection	No
 other measurement function 	No
Net Weight	934 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	M
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	85 kA
• at 415 V	55 kA
• at 440 V	36 kA
● at 500 V	10 kA

operating short-circuit current breaking capacity (lcs)	
● at 240 V	63 kA
• at 415 V	41 kA
• at 440 V	27 kA
● at 500 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	187 kA
• at 415 V	121 kA
• at 440 V	76 kA
• at 500 V	17 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	
adjustable response value setting current (li) / for I-tripping	
• minimum	280 A
• maximum	640 A
adjustable setting current (InN) / for N-tripping	
• minimum	40 A
• maximum	40 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• maximum	640 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
depth	70 mm
Connections	70 11111
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	Yes
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	











Miscellaneous

General Product Approval

Test Certificates

Marine / Shipping

other

Environment

EAC

Miscellaneous



Miscellaneous

Confirmation

Environmental Con**firmations**

Environment

Environmental Confirmations

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=3VM1140-5MH32-0AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VM1140-5MH32-0AA0

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

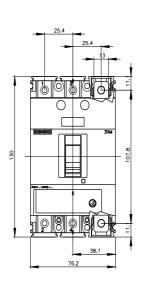
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VM1140-5MH32-0AA0

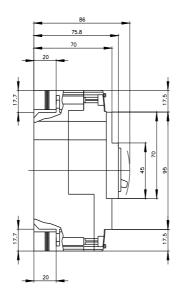
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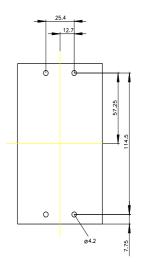
http://www.siemens.com/cax

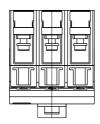
Tender specifications

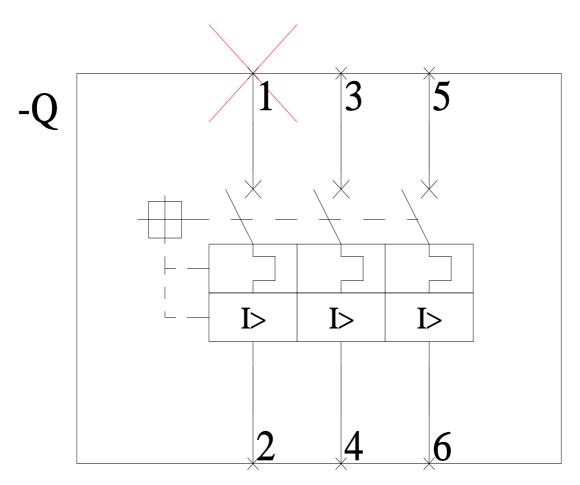
http://www.siemens.com/specifications











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