SIEMENS

Data sheet

3VA1450-7MH32-0AA0



circuit breaker 3VA1 IEC frame 630 breaking capacity class C Icu=110kA @ 415 V 3-pole, starter protection TM120M, AM, In=500A without overload protection short-circuit protection Ii=8...16 x In nut keeper kit

Model					
product brand name	SENTRON				
product designation	Molded case circuit breaker				
design of the product	Starter protection				
design of the overcurrent release	TM120M				
protection function of the overcurrent release	1				
number of poles	3				
General technical data					
insulation voltage / rated value	800 V				
operating voltage / at AC / rated value	690 V				
power loss [W] / maximum	122.7 W				
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	40.9 W				
mechanical service life (operating cycles) / typical	20 000				
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000				
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 000				
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	5.214 kg				
Current					
operational current					
● at 40 °C	500 A				
● at 45 °C	500 A				
● at 50 °C	500 A				
● at 55 °C	488 A				
• at 60 °C	476 A				
● at 65 °C	464 A				
• at 70 °C	452 A				
Switching capacity according to IEC 60947					
switching capacity class of the circuit breaker	C				
maximum short-circuit current breaking capacity (Icu)					
• at 240 V	200 kA				
• at 415 V	110 kA				
• at 440 V	110 kA				
• at 500 V	70 kA				
• at 690 V	10 kA				
operating short-circuit current breaking capacity (Ics)					



Front terminal nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver Ver IP40 -25 °C 70 °C -40 °C 80 °C Q
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Ves IP40 -25 °C 70 °C -40 °C 80 °C
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Ves IP40 -25 °C 70 °C -40 °C 80 °C
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Yes IP40 -25 °C 70 °C -40 °C
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Yes IP40 -25 °C 70 °C
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Yes IP40 -25 °C
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Yes IP40
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Yes
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver 0 Yes
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm Silver
nut keeper kit on both ends 20 x 1 mm 35 x 10 mm
nut keeper kit on both ends 20 x 1 mm
nut keeper kit on both ends 20 x 1 mm
nut keeper kit on both ends
Front terminal
110 mm
4.33 in
138 mm
5.43 in
248 mm
9.76 in
No
No
No
No
500 A
500 A
5 000 A
2 500 A
breaker device manual; link to be found under Service & Support in the last chapter
For switching power values in DC networks, see the 3VA molded case circuit
17 kA
154 kA
242 kA
242 kA
440 kA
6 kA
70 kA
110 kA
110 kA
200 kA



	<u>Confirmation</u>		<u>Miscellaneous</u>	EAC	RCM
Declaration of Conformi	ty	Test Certificates		Marine / Shipping	
UK CA	CE EG-Konf.	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	ABS	B U R E A U VERITAS
Marine / Shipping		other			Environment
<u>ĴÅ</u>	Lloyd's Register	Confirmation	<u>Miscellaneous</u>	<u>Miscellaneous</u>	Environmental Con- firmations

	forma	

DNV

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.

LRS

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=3VA1450-7MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1450-7MH32-0AA0

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1450-7MH32-0AA0

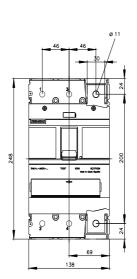
CAx-Online-Generator

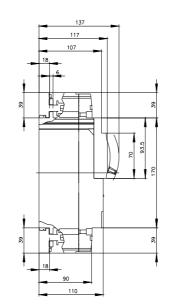
http://www.siemens.com/cax

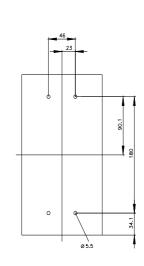
Tender specifications

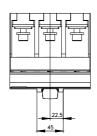
http://www.siemens.com/specifications

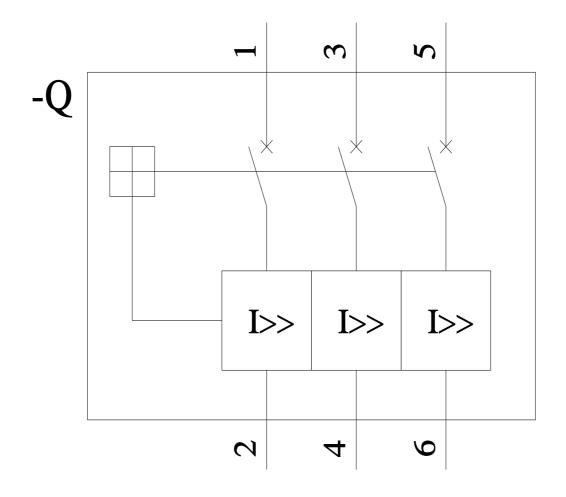












last modified:

10/22/2022 🖸





