## **SIEMENS**

## **Data sheet**



circuit breaker 3VA1 IEC frame 400 breaking capacity class M Icu=55kA @ 415V 3-pole, starter protection TM120M, AM, In=320A without overload protection short-circuit protection li=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	I	
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	80.1 W	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	26.7 W	
mechanical service life (operating cycles) / typical	20 000	
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	6 000	
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 200	
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No	
ground-fault monitoring version	Without	
product function		
<ul> <li>communication function</li> </ul>	No	
other measurement function	No	
Net Weight	4.937 kg	
Current		
operational current		
• at 40 °C	320 A	
• at 45 °C	320 A	
• at 50 °C	320 A	
• at 55 °C	313 A	
• at 60 °C	306 A	
• at 65 °C	299 A	
● at 70 °C	292 A	
Switching capacity according to IEC 60947		
switching capacity class of the circuit breaker	M	
maximum short-circuit current breaking capacity (lcu)		
• at 240 V	85 kA	
• at 415 V	55 kA	
• at 440 V	55 kA	
● at 500 V	36 kA	
● at 690 V	7 kA	
operating short-circuit current breaking capacity (Ics)		

• at 240 V	85 kA	
• at 415 V	55 kA	
• at 440 V	55 kA	
● at 500 V	36 kA	
• at 690 V	5 kA	
short-circuit current making capacity (Icm)		
• at 240 V	187 kA	
• at 415 V	121 kA	
• at 440 V	121 kA	
● at 500 V	75.6 kA	
● at 690 V	11.9 kA	
design of short-circuit protection	For switching power values in DC networks, see the 3VA breaker device manual; link to be found under Service & chapter	
Adjustable parameters		
adjustable response value setting current (li) / for I-tripping		
• minimum	2 240 A	
• maximum	4 480 A	
adjustable setting current (InN) / for N-tripping		
• minimum	320 A	
• maximum	320 A	
product function / grounding protection	No	
Mechanical Design		
product component		
undervoltage release	No	
voltage trigger	No	
trip indicator	No	
height [in]	9.76 in	
height	248 mm	
width [in]	5.43 in	
width	138 mm	
depth [in]	4.33 in	
depth	110 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front terminal	
type of electrical connection / for main current circuit	nut keeper kit on both ends	
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	20 x 1 mm	
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	35 x 10 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)	Silver	
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		
<ul> <li>during operation / minimum</li> </ul>	-25 °C	
<ul> <li>during operation / maximum</li> </ul>	70 °C	
<ul><li>during storage / minimum</li></ul>	-40 °C	
during storage / maximum	80 °C	
reference code / according to IEC 81346-2	Q	
Approvals / Certificates		
General Product Approval		EMC













**Declaration of Conformity** 

**Test Certificates** 

Marine / Shipping





Special Test Certificate

**Miscellaneous** 

**Miscellaneous** 





Marine / Shipping

other

Environment





Miscellaneous

Confirmation

**Miscellaneous** 

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=3VA1332-5MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA1332-5MH32-0AA0

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA1332-5MH32-0AA0

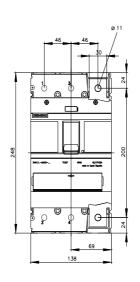
**CAx-Online-Generator** 

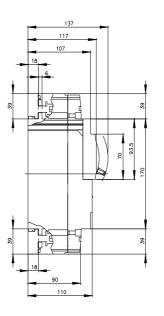
http://www.siemens.com/cax

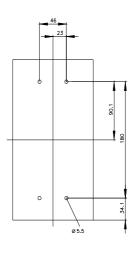
**Tender specifications** 

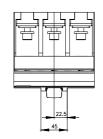
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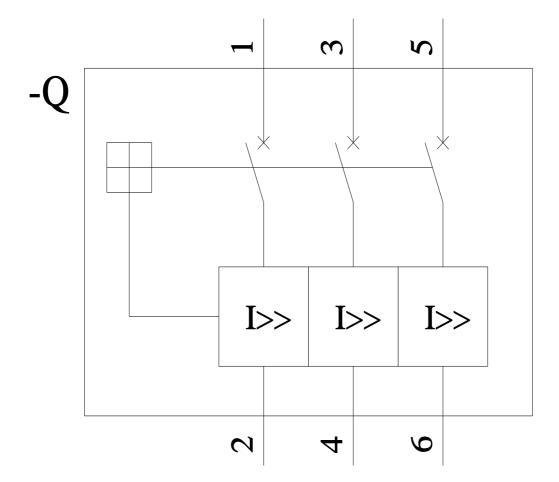












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