SIEMENS

Data sheet

3VA5110-1MU31-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=100A without overload protection short-circuit protection Ii=3...7 x In without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
design of the product	Starter protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type)	No
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
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	19.2 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	6.4 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
electrical endurance (operating cycles) / at 480 V	8 000
electrical endurance (operating cycles) / at 600 V	4 000
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	0.963 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	100 A
• at 45 °C	98 A
• at 50 °C	95 A
● at 55 °C	93 A
● at 60 °C	91 A
● at 65 °C	89 A

● at 70 °C	87 A
Switching capacity according to IEC 60947	
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	10 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	154 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit
	breaker device manual; link to be found under Service & Support in the last chapter
Adjustable parameters	
adjustable response value setting current (li) / for I-tripping	
• minimum	300 A
• maximum	700 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
 undervoltage release 	No
voltage trigger	No
trip indicator	No
height [in]	5.51 in
height	140 mm
width [in]	3 in
width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
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
Certificates	
reference code / according to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Q Yes
General Product Approval	
Constant Frondor Approval	



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.sieme 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=3VA5110-1MU31-0AA0

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

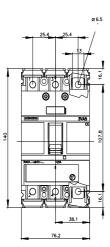
https://support.industry.siemens.com/cs/ww/en/ps/3VA5110-1MU31-0AA0

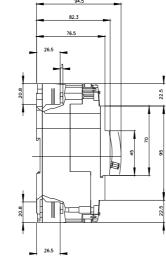
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5110-1MU31-0AA0

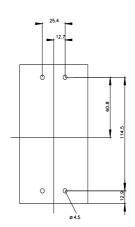
CAx-Online-Generator

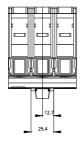
http://www.siemens.com/cax **Tender specifications**

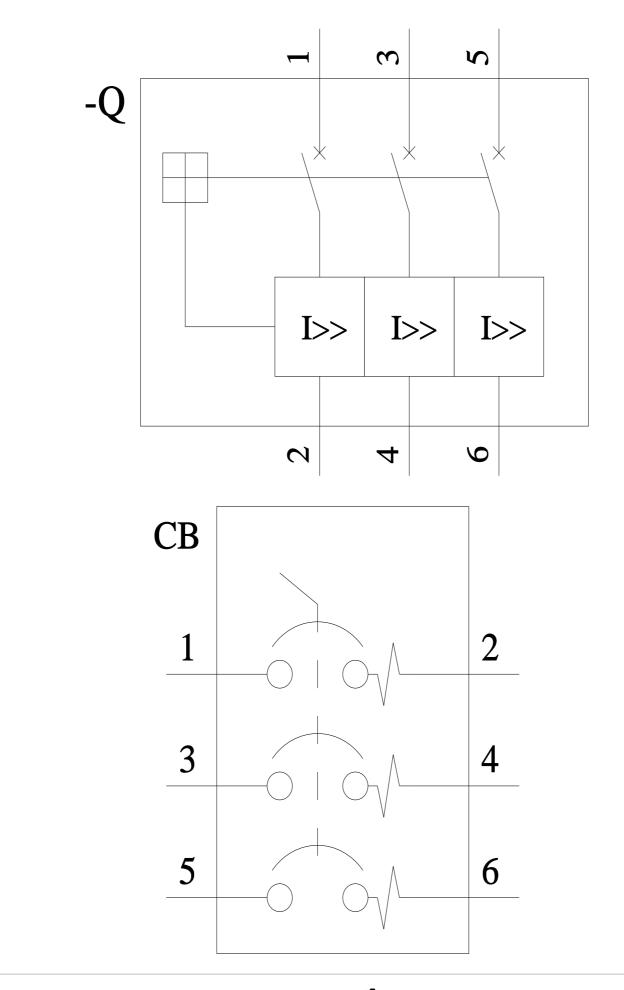
http://www.siemens.com/specifications











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