3VA5125-4EC31-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480V 3-pole, line protection TM230, FTAM, In=25A overload protection Ir=25A fixed short-circuit protection Ii=6...12 x In UL 489 SB (naval), 50° C without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	SEAM
design of the product	System 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)	Yes
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	No
design of the overcurrent release	TM230
protection function of the overcurrent release	Ц
number of poles	3
General technical data	
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	8.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.87 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
 other measurement function 	No
Net Weight	950 g
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	25 A
• at 45 °C	24 A
• at 50 °C	24 A
• at 55 °C	23 A
• at 60 °C	23 A
• at 65 °C	23 A
● at 70 °C	22 A

switching capacity class of the crount breater design of short-circuit protection for switching power values in DC networks, see the 3VA molded case circuit breater device manual; link to be found under Service & Support in the last character current breating capacity	Switching capacity according to IEC 60947	0
# breaker device manual; link to be found under Service & Support in the last chapter Inchapter I	switching capacity class of the circuit breaker	S
current breaking capacity at 240 V at 800 V/347 V the KA Vigitable parameters adjustable response value setting current (Ir) / of the L-brip / with 12th characteristic minimum	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
e 12 40 V	witching capacity according to UL 489	
• alt 480 V • alt 600 V/347 V • alt 000 V/347 V • alt 14 KA	current breaking capacity	
	• at 240 V	65 kA
Adjustable parameters Adjustable parameters Adjustable personse value setting current (Ir) / of the L-trip / with ZE characteristic Final Properties Adjustable personse value delay time (Ir) / for L-tripping / with 12 Amazimum 1 s S S S S S S S S S	● at 480 V	25 kA
adjustable response value setting current (Ir) / of the L-trip / with 2c haracteriselic minimum 25 A 25 A 26 A	● at 600 Y/347 V	14 kA
IZ charactersisic minimum 25 A 25 A	Adjustable parameters	
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adjustable response value delay time (tr) / for L-tripping / with 12t characteristic • minimum	• minimum	25 A
characteristic • minimum • minimum • maximum adjustable response value setting current (ii) / for I-tripping • minimum • during operation / minimum • during operation / minimum • during operation / minimum • during storage / maximum • during storage / maxim	• maximum	25 A
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adjustable response value setting current (fil) / for I-tripping	• minimum	1 s
• minimum • maximum adjustable setting current (InN) / for N-tripping • minimum • maximum adjustable setting current (InN) / for N-tripping • minimum • maximum adjustable current response value current / of the current- dependent overload release product function / grounding protection Mo Mochanical Design product component • undervoltage release • voltage trigger • inip indicator • irip indicator • lipi indicator Mo Melght [in] 5.51 in height It 00 mm width [in] 3.01 in depth 76.5 mm depth [in] depth 76.5 mm Acconnections arrangement of electrical connectors / for main current circuit Without widtlary circuit number of CO contacts / for auxiliary contacts product extension / optional / motor drive invironmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during storage / maximum • during storage / minimum • during storage / maximum	maximum	1 s
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during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat Yes		
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certificate of suitability / as approval for NAVAL (no combat	during storage / maximum	80 °C
	Certificates	

Confirmation









Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other



<u>Miscellaneous</u>

Confirmation

Miscellaneous

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)

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5125-4EC31-1AA0

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

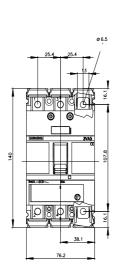
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5125-4EC31-1AA0

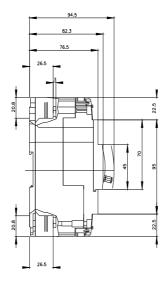
CAx-Online-Generator

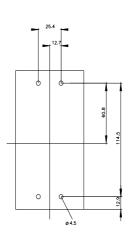
http://www.siemens.com/cax

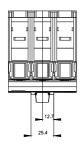
Tender specifications

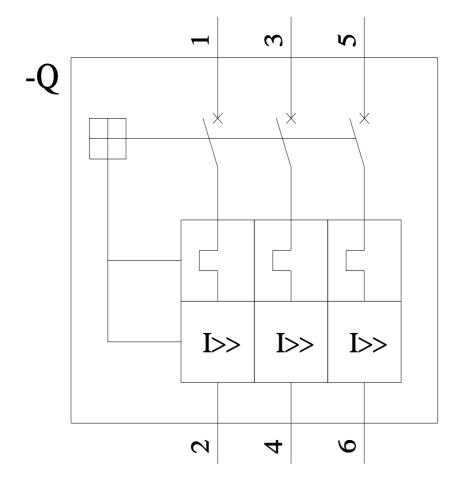
http://www.siemens.com/specifications

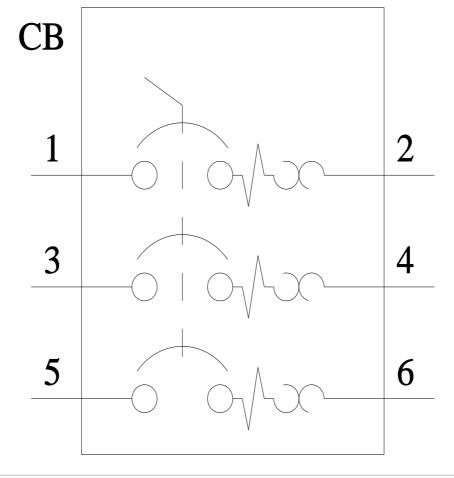












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