3VA5145-6ED22-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class H 65kA @ 480 V 2-pole, line protection TM210, FTFM, In=45A overload protection Ir=45A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAM
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	TM210
protection function of the overcurrent release	Ц
number of poles	2
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	7.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	3.8 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	0.669 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	45 A
• at 45 °C	44 A
• at 50 °C	44 A
● at 55 °C	43 A
• at 60 °C	42 A
• at 65 °C	42 A
• at 70 °C	41 A

design of short-circuit protection For switching power values in DC networks, see the 3VA molded case of	Switching capacity according to IEC 60947 switching capacity class of the circuit breaker	Н
breaker device manual; link to be found under Service & Support in the I chapter Switching capacity according to UL 489 current breaking capacity at 240 V at 480 V bit 480 V cat 68 kA at 600 V/347 V 25 kA Adjustable parameters adjustable response value setting current (ii/) of the Lin/ with 12ch characteristic minimum maximum minimum mi		
Switching capacity according to UL 439 150 kA 4 480 V 4	design of short-circuit protection	breaker device manual; link to be found under Service & Support in the last
120 V	Switching capacity according to UL 489	
150 kA 160 V 160 KA 160 KA 160 V 160 KA 1		
		150 kA
	• at 480 V	65 kA
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adjustable response value delay time (tr) / for L-tripping / with 12t characteristic	• minimum	45 A
characteristic	maximum	45 A
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	during storage / maximum	80 °C
certificate of suitability / as approval for NAVAL (no combat	Certificates	
vessels) / supplement SB		Yes



Confirmation





Miscellaneous



EMC

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report



Miscellaneous

Confirmation

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/3VA5145-6ED22-1AA0

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

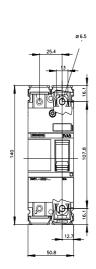
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5145-6ED22-1AA0

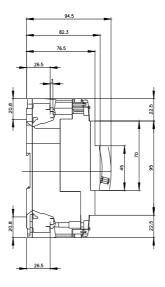
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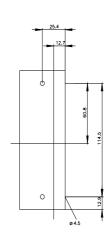
http://www.siemens.com/cax

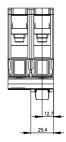
Tender specifications

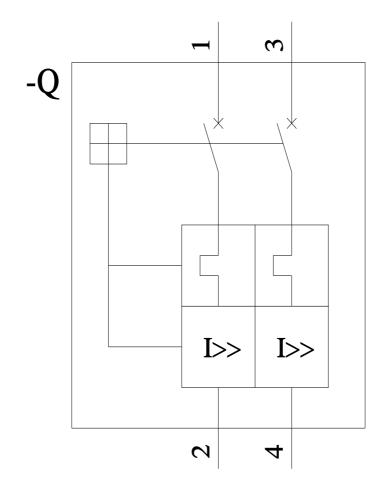
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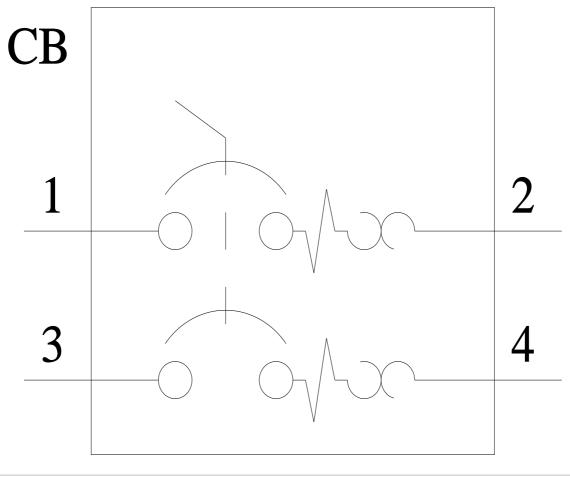












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