3VA5125-6ED11-1AA0

Data sheet



circuit breaker 3VA5 UL frame 125 breaking capacity class H 50kA @ 277V 1-pole, line protection TM210, FTFM, In=25A overload protection Ir=25A fixed short-circuit protection Ii=12 x In UL 489 SB (naval), 50° C without connection

product designation / according to UL file design of the product designation / according to UL file design of the toad switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HIO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (HO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (HO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (HO Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release	Model	
product designation / according to UL file design of the product design of the product design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty design of the overcurrent release protection function of the overcurrent release II unwher of poles General technical data operating voltage / at AC / rated value power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (operating cycles) / at AC-1 / at 800 V electrical endurance (opera	product brand name	SENTRON
design of the product design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HDT Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release In under of poles 1 Ceneral technical data operating voltage / at AC / rated value operating voltage / at AC / rated value operating voltage / at AC / rated value operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 480 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function • communication function • other measurement function No No operational current • at 40 °C at 45 °C at 45 °C at 65 °C at 65 °C at 60 °C at 65 °C	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity-Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release ILI number of poles 1 Coneral technical data operating voltage / at AC / rated value power loss [W] / maximum 2.87 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 680 V electrical endurance (operating cycles) / at 480 V	product designation / according to UL file	H5EAM
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HID Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles Ceneral technical data operating voltage / at AC / rated value operating voltage / at AC / rated value operating voltage / at AC / rated value operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 680 V electrical endurance (operating cycles) / at 800 V	design of the product	System protection
design of the load switch / according to UL 489 / Switching Duty circuit treaker (SWD Type) design of the overcurrent release protection function of the overcurrent release III number of poles I Ceneral technical data operating voltage / at AC / rated value prower loss [W] / maximum power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / at AC-1 / at 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at A00 V electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version product function • communication function • other measurement function No Net Weight Curront marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 55 °C • at 65 °C • at 60 °C •		Yes
design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 1 Ceneral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 2.87 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / ta 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 AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function • other measurement function No Net Weight Operational current • at 40 °C • at 55 °C • at 55 °C • at 60 °C • at 65 °C • 23 A • at 60 °C • at 65 °C • 23 A • at 60 °C • at 65 °C • 23 A • at 60 °C • at 65 °C • 23 A		Yes
protection function of the overcurrent release		No
Number of poles 1	design of the overcurrent release	TM210
Content Cont	protection function of the overcurrent release	Ш
Operating voltage / at AC / rated value	number of poles	1
power loss [W] / maximum 2.87 W	General technical data	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	operating voltage / at AC / rated value	415 V
operating state / per pole 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 ground-fault monitoring version without product function No No Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 25 A • at 45 °C 24 A • at 55 °C 23 A • at 60 °C 23 A • at 65 °C 23 A	power loss [W] / maximum	2.87 W
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 ground-fault monitoring version without product function • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 65 °C 23 A • at 60 °C • at 65 °C 23 A • at 65 °C 23 A		2.87 W
electrical endurance (operating cycles) / at AC-1 / at 690 V	mechanical service life (operating cycles) / typical	20 000
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 ground-fault monitoring version without product function • communication function No • other measurement function No Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 25 A • at 45 °C 24 A • at 55 °C 23 A • at 65 °C 23 A • at 65 °C 23 A • at 65 °C 23 A	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version product function communication function other measurement function No Net Weight Marking / according to UL 489 / 100%-rated breaker marking / according to UL 489 / 100%-rated breaker operational current at 40 °C at 45 °C at 45 °C at 55 °C at 65 °C 23 A at 65 °C 23 A at 65 °C 23 A at 65 °C	electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version without product function • communication function No • other measurement function No Net Weight 0.38 kg 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 60 °C 23 A • at 65 °C 23 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof ground-fault monitoring version without product function	electrical endurance (operating cycles) / at 600 V	4 000
product function		No
 ◆ communication function No Nother measurement function No Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 60 °C • at 65 °C 23 A • at 65 °C 	ground-fault monitoring version	without
● other measurement function No Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker operational current ● at 40 °C ● at 45 °C ● at 50 °C ● at 55 °C ● at 60 °C ● at 65 °C 23 A ● at 65 °C 23 A	product function	
Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 25 A • at 40 °C 24 A • at 50 °C 24 A • at 55 °C 23 A • at 60 °C 23 A • at 65 °C 23 A	 communication function 	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 25 A • 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	 other measurement function 	No
marking / according to UL 489 / 100%-rated breaker No operational current 25 A • 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	Net Weight	0.38 kg
operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C 23 A • at 65 °C	Current	
 at 40 °C at 45 °C at 50 °C at 55 °C at 60 °C at 65 °C 23 A at 65 °C 23 A 	marking / according to UL 489 / 100%-rated breaker	No
 at 45 °C at 50 °C at 55 °C at 60 °C at 65 °C 23 A at 65 °C 23 A 	operational current	
 at 50 °C at 55 °C at 60 °C at 65 °C 23 A 23 A 23 A 23 A 	• at 40 °C	25 A
• at 55 °C 23 A • at 60 °C 23 A • at 65 °C 23 A	• at 45 °C	24 A
• at 60 °C 23 A • at 65 °C 23 A	● at 50 °C	24 A
• at 65 °C 23 A	• at 55 °C	23 A
	• at 60 °C	23 A
• at 70 °C 22 A	• at 65 °C	23 A
	● at 70 °C	22 A

switching capacity class of the circuit breaker	Н
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
witching capacity according to UL 489	
current breaking capacity	
• at 120 V	100 kA
• at 277 V	50 kA
• at 347 V	18 kA
djustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	25 A
• maximum	25 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
• maximum	1s
adjustable response value setting current (li) / for I-tripping	
• minimum	300 A
• maximum	300 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of the current- dependent overload release	25 25 A
product function / grounding protection	No
echanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
height [in]	5.51 in
height	140 mm
width [in]	1 in
width	25.4 mm
depth [in]	3.01 in
depth	76.5 mm
onnections	70.5 111111
	AAPO 1 C
arrangement of electrical connectors / for main current circuit	Without connection
type of electrical connection / for main current circuit	Without
uxiliary circuit	
number of CO contacts / for auxiliary contacts	0
ccessories	
product extension / optional / motor drive	No
nvironmental 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
ertificates	



Confirmation







Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping

other









Miscellaneous

Confirmation

other

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5125-6ED11-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5125-6ED11-1AA0

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

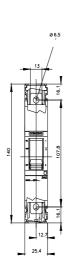
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5125-6ED11-1AA0

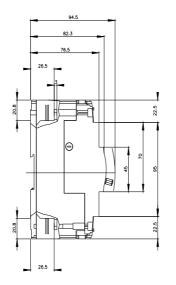
CAx-Online-Generator

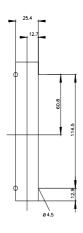
http://www.siemens.com/cax

Tender specifications

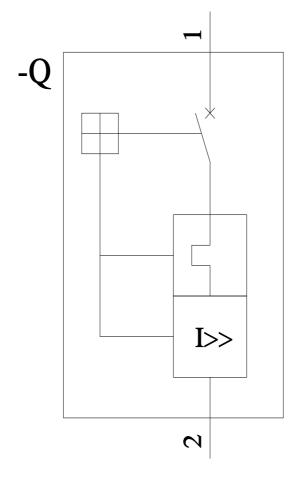
http://www.siemens.com/specifications

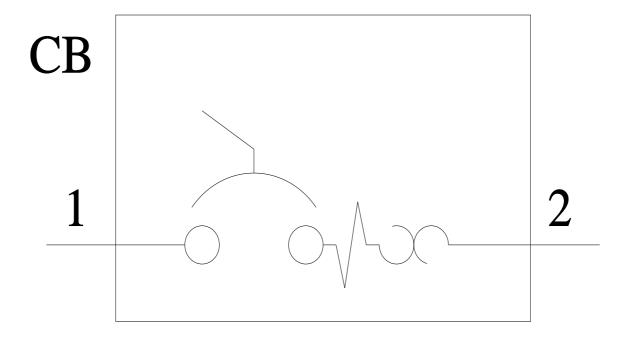












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