3VA5145-6ED26-1AA0

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. cable connection on both sides

product designation product designation According to UL file HEAM	Model	
product designation / according to UL file design of the product design of the product System protection 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 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release protection function of the overcurrent release ILI number of poles 2 Ceneral technical data operating voitage / at AC / rated value 415 V 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 690 V electrical endurance (operating cycles) / at AB V electrical endurance (operating cycles) / at	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 (IBT 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 voercurrent release TM210 protection function of the overcurrent release protection function of the overcurrent release TM210 protection function of the overcurrent release protection function of the overcurrent release TM210 protection function of the overcurrent release protection function of the overcurrent release TM210 protection function for the overcurrent release TM210 power loss [W] / maximum T, 6, W power loss [W] / for rated value of the current / at AC / in hot operating vollage / 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) / 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 480 V 9 000 electrical endurance (operating cycles) / at 600 V 4 000 ground-fault monitoring version without product function • communication function • communication function No No Net Weight 0.668 kg Curront marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 45 A 44 A 43 A 46 C 41 45 °C 41 65 °C 42 A 42 A 42 A	product designation	Molded-case circuit breaker
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 / 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	product designation / according to UL file	HEAM
Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity- bischarge circuit breaker (HHDT type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) design of the overcurrent release protection function of the overcurrent release LL number of poles Ceneral technical data operating voltage / at AC / rated value operating voltage / at AC / rated value opower loss [W] / maximum opower 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 690 V electrical endurance (operating cycles) / at AC-0 V electrical endurance (operating cycles) / at AC-1 V electrical endurance (ope	design of the product	System protection
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 protection function of the overcurrent release number of poles 2 Ceneral 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 690 V electrical endurance (operating cycles) / at ABO V electrical endurance (operating cycles) / at ABO V electrical endurance (operating cycles) / at ABO V 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 No No Net Weight Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 65 °C 42 A • at 65 °C 42 A • at 65 °C 42 A		Yes
design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 2 General technical data operating voltage / at AC / rated value 415 V 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) / 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 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 No Net Weight 0.668 kg Current marking / according to UL 489 / 100%-rated breaker No operational current • at 40 °C 45 A • at 50 °C 44 A • at 55 °C 44 A • at 55 °C 42 A • at 60 °C 42 A • at 60 °C 42 A • at 60 °C 42 A		Yes
protection function of the overcurrent release LI number of poles 2 General technical data operating voltage / at AC / rated value power loss [W] / maximum 7.6 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 380/415 V electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 600 V for overland overload proof ground-fault monitoring version without product function ocommunication function No Net Weight O.668 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 55 °C • at 45 °C • at 60 °C • at 65 °C		No
Rumber of poles 2	design of the overcurrent release	TM210
Ceneral technical data	protection function of the overcurrent release	LI
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 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.6 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 8.00 electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 460 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / hot operating down of the operation of the current / neutral conductors / upgradable/retrofittable / hot operation function	number of poles	2
Dower loss [W] / maximum 7.6 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 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 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 Net Weight 0.668 kg Current marking / according to UL 489 / 100%-rated breaker operational current • at 40 °C • at 45 °C • at 45 °C • at 55 °C • at 60 °C • at 65 °C • 42 A • at 65 °C • 42 A	power loss [W] / maximum	7.6 W
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 480 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 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 60 °C • at 65 °C 42 A • at 65 °C		3.8 W
electrical endurance (operating cycles) / at AC-1 / at 690 V electrical endurance (operating cycles) / at 480 V electrical endurance (operating cycles) / at 600 V electrical endurance (operating cycles) / at 600 V product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof ground-fault monitoring version • communication function • other measurement function No Net Weight Current marking / according to UL 489 / 100%-rated breaker • at 40 °C • at 45 °C • at 45 °C • at 45 °C • at 55 °C • at 60 °C • at 60 °C • at 65 °C • at 65 °C 40 40 40 40 40 40 40 40 40 4	mechanical service life (operating cycles) / typical	20 000
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 Current marking / according to UL 489 / 100%-rated breaker • at 40 °C • at 45 °C • at 45 °C • at 55 °C • at 60 °C • at 65 °C • at 60 °C • at 65 °C • at 60 °C • at 60 °C • at 65 °C • at 60 °C • at 60 °C • at 65 °C • at 60 °C • at 60 °C • at 65 °C • at 60 °C • at 60 °C • at 65 °C	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 nother measurement function Nothet 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 45 °C at 65 °C 42 A at 65 °C 42 A at 65 °C 42 A	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 0.668 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	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 • communication function • other measurement function No Net Weight O.668 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 42 A		No
● 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 50 °C ● at 55 °C ● at 60 °C ● at 65 °C At An ● at 65 °C	ground-fault monitoring version	without
● other measurement function No Net Weight 0.668 kg Current marking / according to UL 489 / 100%-rated breaker operational current ● at 40 °C ● at 45 °C ● at 45 °C ● at 50 °C ● at 55 °C ● at 60 °C ● at 65 °C ● 42 A	product function	
Net Weight 0.668 kg Current marking / according to UL 489 / 100%-rated breaker No operational current 45 A • 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	• communication function	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 45 A • 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	 other measurement function 	No
marking / according to UL 489 / 100%-rated breaker No operational current 45 A • 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	Net Weight	0.668 kg
operational current • at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C • at 65 °C • at 65 °C	Current	
• at 40 °C • at 45 °C • at 50 °C • at 55 °C • at 60 °C • at 65 °C • 42 A	marking / according to UL 489 / 100%-rated breaker	No
 at 45 °C at 50 °C 44 A at 55 °C 43 A at 60 °C at 65 °C 42 A 	operational current	
• at 50 °C 44 A • at 55 °C 43 A • at 60 °C 42 A • at 65 °C 42 A	• at 40 °C	45 A
• at 55 °C 43 A • at 60 °C 42 A • at 65 °C 42 A	• at 45 °C	44 A
• at 60 °C 42 A • at 65 °C 42 A	• at 50 °C	44 A
• at 65 °C 42 A	● at 55 °C	43 A
	• at 60 °C	42 A
• at 70 °C 41 A	• at 65 °C	42 A
	● at 70 °C	41 A

switching capacity class of the circuit breaker design of short-circuit protection Switching capacity according to UL 489 current breaking capacity	H 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
Switching capacity according to UL 489	
	chapter
• at 240 V	150 kA
• at 480 V	65 kA
• at 600 Y/347 V	25 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with	
I2t characteristic	45.4
• minimum	45 A
• maximum	45 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	1 s
maximum	1 s
adjustable response value setting current (li) / for I-tripping	
• minimum	450 A
maximum	450 A
adjustable absolute value setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of the current- dependent overload release	32 45 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]	2 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (8 AWG - 3/0)
width	50.8 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	No
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	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes
General Product Approval	











Miscellaneous

General Product Approval

EMC

Declaration of Conformity

Test Certificates

Marine / Shipping









Type Test Certificates/Test Report



Marine / Shipping









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=3VA5145-6ED26-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5145-6ED26-1AA0

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

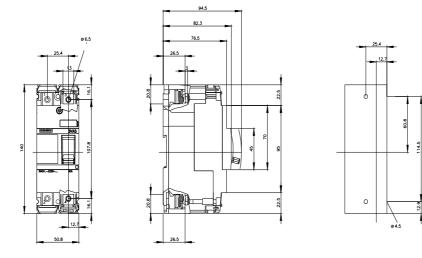
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5145-6ED26-1AA0

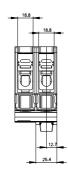
CAx-Online-Generator

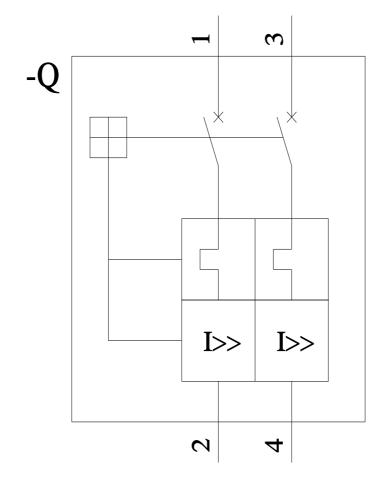
http://www.siemens.com/cax

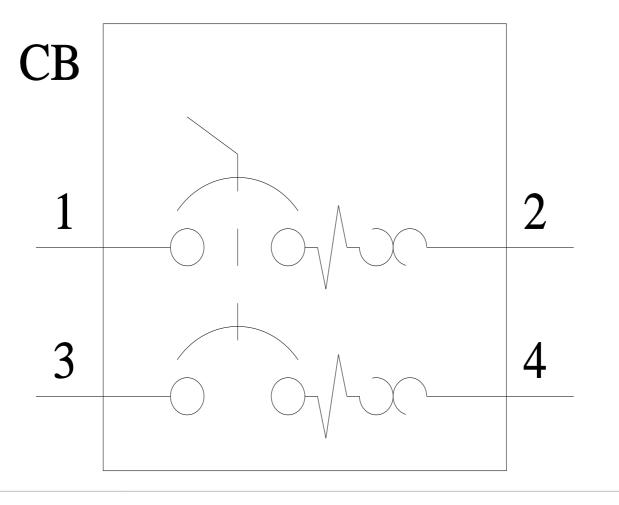
Tender specifications

http://www.siemens.com/specifications









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