SIEMENS

Data sheet

3VA5130-5ED11-1AA0

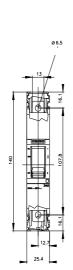


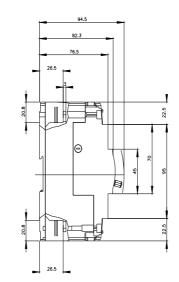
circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 277V 1-pole, line protection TM210, FTFM, In=30A overload protection Ir=30A fixed short-circuit protection Ii=10 x In UL 489 SB (naval), 50° C without connection

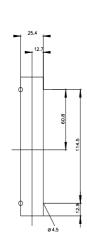
product branch name SENTRON product designation / according to UL file Micked-case circuit breaker (1) design of the product System protection design of the bad switch / according to UL 489 / Heating, Arr Conditioning, and Retrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / Switching Duty circuit breaker (HID Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (HID Type) No design of the overcurrent release TM210 protection function of the overcurrent release Ll number of poles 1 General technical data 32 W power loss [W] / for rated value of the current / at AC / in hot 3.2 W power loss [W] / for rated value of the current / at AC / in hot 3.2 W electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 808 V 8 000 electrical endurance (operating cycles) / at AC V 8 000 electrical endurance (operating cycles) / at AO V 8 000 electrical endurance (operating cycles) /	Model	
product designation / according to UL file MEAM design of the product System protection design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HTT Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (INT Type) Yes design of the load switch / according to UL 489 / Switching Duty circuit breaker (HTT Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (INT Type) No design of the overcurrent release TM210 protection function of the overcurrent release L number of pois 1 Central technical data 3.2 W power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofitable No <td>product brand name</td> <td>SENTRON</td>	product brand name	SENTRON
design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigerative (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 / 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 TM210 protection function of the overcurrent release LI number of poles 1 Ceneral technical data 32 W power toss [W] / maximum 32 W power toss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 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 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 ground-faultrance (operating cycles) / at AC-1 / at 380/415 V 8 000	product designation	Molded-case circuit breaker
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 (HD Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty drout breaker (SWD Type) No constant to find the oursent / at AC / in hot operating state / per pole 32 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 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 AC / 1 at 690 V 8 000 electrical endurance (operating cycles) / at AC / 1 at 690 V 8 000 ground-fault monitoring version without <tr< td=""><td>product designation / according to UL file</td><td>MEAM</td></tr<>	product designation / according to UL file	MEAM
Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Yes design of the load switch / according to UL 489 / Switching Duty No circuit breaker (SWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release Ll operating voltage / at AC / rated value 415 V operating voltage / at AC / rated value 415 V power toss [W] / naximum 3.2 W power toss [W] / for rated value of the current / at AC / in hot 32 W operating voltage / at AC / rated value of the current / at AC / in hot 32 W operating state / per pole 20 000 electrical endurance (operating cycles) / typical 8000 electrical endurance (operating cycles) / ta 480 V 8000 electrical endurance (operating cycles) / ta 480 V 8000 electrical endurance (operating cycles) / ta 480 V 8000 ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable No other measurement function No other measurement function No other measureme	design of the product	System protection
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 TM210 protection function of the overcurrent release Ll number of poles 1 Ceneral technical data		Yes
circuit breaker (SWD Type) TM2 10 design of the overcurrent release LI number of poles 1 General technical data		Yes
Display Display protection function function of the overcurrent release Ll number of poles 1 General technical data	0 0 ,	No
number of poles 1 General tachnical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.2 W mechanical service life (operating cycles) / the current / at AC / in hot operating state / per pole 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 680 V 4 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 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-cruit and overload proof No ground-fault monitoring version without product function No • other measurement function No • other measurement function No • other measurement function No • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 28 A	design of the overcurrent release	TM210
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 3.2 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 AC V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at AO V 8 000 electrical endurance (operating cycles) / at AO V 8 000 electrical endurance (operating cycles) / at AO V 8 000 ground-fault monitoring version without product function No • other measurement function No • other measurement function No Net Weight 0.38 kg Current 30 A • at 40 °C 29 A • at 50 °C 29 A • at 55 °C 28 A	protection function of the overcurrent release	LI
operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.2 W 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 ABO V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / stort-circuit and overload proof No ground-fault monitoring version without product function No • other measurement function No Net Weight 0.38 kg Current at 40 °C 30 A • at 40 °C 29 A 29 A • at 50 °C 28 A 28 A • at 60 °C 28 A 28 A	number of poles	1
power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot 3.2 W operating state / per pole 20 000 mechanical service life (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 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 600 V 4 000 ground-fault monitoring cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof No e communication function No • other measurement function No Net Weight 0.38 kg Current 30 A • at 40 °C 29 A • at 40 °C 29 A • at 45 °C 29 A • at 55 °C 28	General technical data	
power loss [W] / for rated value of the current / at AC / in hot 3.2 W operating state / per pole 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at 80/15 V 8 000 electrical endurance (operating cycles) / at 80 V 4 000 electrical endurance (operating cycles) / at 80 V 8 000 electrical endurance (operating cycles) / at 80 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • other measurement function No • other measurement function No operational current 30 A • at 40 °C 30 A • at 45 °C 29 A • at 55 °C 28 A • at 60 °C 28 A	operating voltage / at AC / rated value	415 V
operating state / per polemechanical service life (operating cycles) / typical20 000electrical endurance (operating cycles) / at AC-1 / at 380/415 V8 000electrical endurance (operating cycles) / at 690 V4 000electrical endurance (operating cycles) / at 690 V8 000electrical endurance (operating cycles) / at 800 V8 000electrical endurance (operating cycles) / at 800 V4 000product feature / for neutral conductors / upgradable/retrofittable / shot-circuit and overload proofNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breaker• at 40 °C30 A• at 45 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A	power loss [W] / maximum	3.2 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 AC-1 / at 690 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 690 V 8 000 electrical endurance (operating cycles) / at ABO V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • other measurement function No • other measurement function No • other measurement function No operational current 0.38 kg • at 40 °C 30 A • at 40 °C 29 A • at 40 °C 29 A • at 50 °C 28 A • at 60 °C 28 A • at 60 °C 28 A • at 65 °C 28 A		3.2 W
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 No / short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • 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 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	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 No / short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.38 kg Current Image: Current • at 40 °C 30 A • at 40 °C 29 A • at 45 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000
electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function No Net Weight 0.38 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current at 40 °C • at 40 °C 30 A • at 45 °C 29 A • at 55 °C 28 A • at 66 °C 28 A	electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proofNoground-fault monitoring versionwithoutproduct functionNo• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breaker• at 40 °C30 A• at 45 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof without ground-fault monitoring version without product function No • communication function No • other measurement function 0.38 kg Current 0.38 kg marking / according to UL 489 / 100%-rated breaker No operational current 30 A • at 40 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	electrical endurance (operating cycles) / at 600 V	4 000
product functionNo• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNoNooperational current30 A• at 40 °C30 A• at 45 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A		No
• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current30 A• at 40 °C30 A• at 45 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A	ground-fault monitoring version	without
• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C30 A• at 45 °C29 A• at 55 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A	product function	
Net Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational currentNo• at 40 °C30 A• at 45 °C29 A• at 55 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A	 communication function 	No
Current marking / according to UL 489 / 100%-rated breaker No operational current 30 A • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breakerNooperational current30 A• at 40 °C30 A• at 45 °C29 A• at 50 °C29 A• at 55 °C28 A• at 60 °C28 A• at 65 °C28 A	Net Weight	0.38 kg
operational current 30 A • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	Current	
• at 40 °C 30 A • at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	marking / according to UL 489 / 100%-rated breaker	No
• at 45 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	operational current	
• at 50 °C 29 A • at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	• at 40 °C	30 A
• at 55 °C 28 A • at 60 °C 28 A • at 65 °C 28 A	• at 45 °C	29 A
• at 60 °C 28 A • at 65 °C 28 A	• at 50 °C	29 A
• at 65 °C 28 A	● at 55 °C	28 A
	• at 60 °C	28 A
• at 70 °C 27 A	● at 65 °C	28 A
	● at 70 °C	27 A

Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	Μ			
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			
Switching capacity according to UL 489				
current breaking capacity				
• at 120 V	85 kA			
• at 277 V	35 kA			
• at 347 V	18 kA			
Adjustable parameters				
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic				
• minimum	30 A			
• maximum	30 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	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	30 30 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 1 in			
width [in]	25.4 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	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				

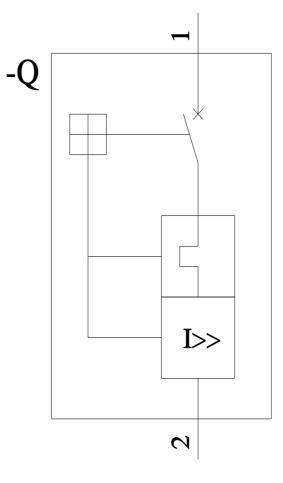
proval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping
EHC	RCM	CE EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping				other	
		Lloyd's Register	KMRS RMRS	<u>Confirmation</u>	<u>Miscellaneous</u>
other					
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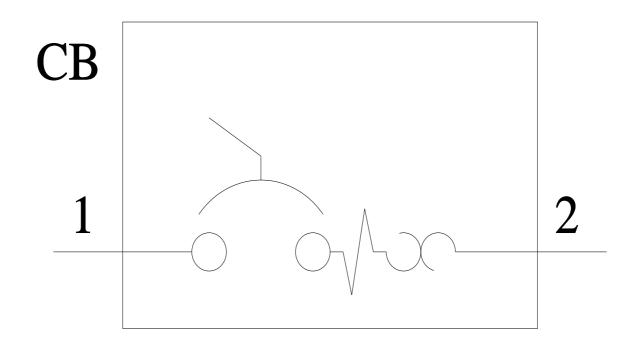












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