SIEMENS

Data sheet

3VA5140-4ED11-1AA0

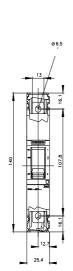


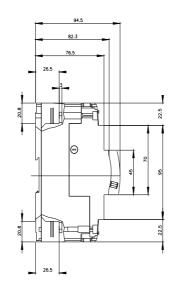
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=40A overload protection Ir=40A fixed short-circuit protection li=10 x In UL 489 SB (naval), 50° C without connection

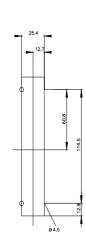
product brand name SENTRON product designation / according to UL file SEAM design of the product System protection design of the product facording to UL 489 / Hearing, Arr Conditioning, and Refigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HACR Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (WD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (WD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (WD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (WD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (WD Type) No design of the overcurrent release Ll number of poles 1 power loss [W] / maximum 3,73 W power loss [W] / maximum 3,73 W power loss [W] / for rated value of the current / at AC / in hot operating value / per pole 8000 electricite endurance (operating cycles) / at AC-1 / at 809 V 4000 electricite endurance (operating cycles) / at AC0 / at 480 V 80	Model	
product designation / according to UL file SEAM System protection design of the product System protection design of the load switch / according to UL 489 / Heating, Ar Conditioning, and Refrigeration circuit breaker (HACR Type) design of the load switch / according to UL 489 / High-Intensity: Discharge circuit breaker (INT Type) design of the load switch / according to UL 489 / Kigh-Intensity: Discharge circuit breaker (INT Type) design of the load switch / according to UL 489 / Switching Duty circuit breaker (INT Type) design of the overcurrent release IL number of poles I General technical data coperating voltag / at AC / rated value 415 V power loss [W] / for rated value of the current / at AC / in hot power loss [W] / for rated value of the current / at AC / in hot power loss [W] / for rated value of the current / at AC / in hot perturing state / per pole electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical ground-fault monitoring version without product feature / for neutral conductors / upgradabie/retrofitable No content in emarking / according to UL 489 / 100%-rated breaker perture in eta 40 °C in eta 50 °C i	product brand name	SENTRON
design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigerater (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge oricul breaker (HIOT Type) No design of the load switch / according to UL 489 / High-Intensity- Discharge oricul breaker (HIOT Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (GND Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (GND Type) No operating voltage / at AC / rated value 1 operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.73 W operating state / per pole 3.73 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 690 V 4 000 product faultrance (operating cycles) / at AC-1 / at 690 V 4 000 product faultrance (operating cycles) / at ACO V 4 000 product faultrance (operating cycles) / at 800 V 4 000 product faultrance (operating cycles) / at ACO V 4 000 product faultrance (operating cycles) / at 800 V 4 000 <tr< td=""><td>product designation</td><td>Molded-case circuit breaker</td></tr<>	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 (HID Type) No 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 L1 number of poles 1 contral tochnical data 3/3 W operating voltage / at AC / rated value 415 V power loss [W] / for artiatur 3,73 W power loss [W] / for arted value of the current / at AC / in hot operating state / per pole 3,73 W electrical endurance (operating cycles) / at AC-1 / at 690 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 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 electrical endurance (operating cycles) / at 480 V 8 000 ground-fault monitoring version without product function No other measurement function No other measurem	product designation / according to UL file	SEAM
Conditioning, and Refrigeration circuit breaker (HACR Type) No 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 6 Contrait to chnical data 373 W operating voltage / at AC / rated value 415 V power loss [W] / maximum 3,73 W operating state / per pole 3.73 W electrical endurance (operating cycles) / typical 8.000 electrical endurance (operating cycles) / typical 0000 electrical endurance (operating cycles) / typical 8.000 electrical endurance (operating cycles) / typical 8.000 electrical endurance (operating cycles) / typical No ordinate (operating cycles) / typical No electrical endurance (operating cycles) / typical 8.000 electrical endurance (operating cycles) / typical No ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable No	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 General technical data		Yes
circuit breaker (SWD Type) Image: Constraint trelease TM210 protection function of the overcurrent release Li number of poles 1 coperating voltage / at AC / rated value 415 V power loss [W] / maximum 3.73 W power loss [W] / maximum 3.73 W power loss [W] / maximum 3.73 W pertection decrement / at AC / in hot 3.73 W operating state / per pole mechanical service life (operating cycles) / typical electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / ta AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overtoad proof ground-fault monitoring version other measurement function No • communication function No • other measurement function No • other measurement function No • other measurement function No • at 40 °C 40 A • at 55 °C		No
protection function of the overcurrent release Ll number of poles 1 General technical data		No
number of poles 1 General tochnical data	design of the overcurrent release	TM210
Genoral technical data operating voltage / at AC / rated value 415 V power loss [W] / for rated value of the current / at AC / in hot 3.73 W power loss [W] / for rated value of the current / at AC / in hot 3.73 W operating state / per pole 3.73 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 electrical endurance (operating cycles) / at 600 V 4 000 ground-fault monitoring version without product function No / stort-circuit and overload proof No ground-fault monitoring version without product function No • communication function No Net Weight 0.38 kg Current 40 A • at 40 °C 40 A • at 40 °C 39 A • at 55 °C 39 A • at 55 °C 37 A	protection function of the overcurrent release	LI
operating voltage / at AC / rated value 415 V power loss [W] / maximum 3.73 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.73 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 ABO V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof No ground-fault monitoring version without product function No • communication function No Not Weight 0.38 kg Current at 40 °C • at 40 °C 40 A • at 40 °C 39 A • at 50 °C 39 A • at 50 °C 37 A • at 60 °C	number of poles	1
power loss [W] / maximum 3.73 W power loss [W] / for rated value of the current / at AC / in hot 3.73 W operating state / per pole a mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / t 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 80 V 8 000 electrical endurance (operating cycles) / at 800 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-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 • at 40 °C 39 A • at 40 °C 39 A • at 55 °C 38 A • at 60 °C 37 A	General technical data	
power loss [W] / for rated value of the current / at AC / in hot 3.73 W operating state / per pole 20 000 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 0 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 Net Weight 0.38 kg Current • at 40 °C • at 40 °C 40 A • at 45 °C 39 A • at 55 °C 38 A • at 60 °C 37 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 600 V8 000electrical endurance (operating cycles) / at 800 V8 000electrical endurance (operating cycles) / at 600 V4 000product 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 °C40 A• at 45 °C39 A• at 55 °C38 A• at 60 °C37 A• at 65 °C37 A	power loss [W] / maximum	3.73 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 V 8 000 electrical endurance (operating cycles) / at AB V 8 000 electrical endurance (operating cycles) / at AB 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 at 40 °C • at 40 °C 40 A • at 40 °C 39 A • at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A		3.73 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 / short-circuit and overload proof No 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 40 A • at 40 °C 40 A • at 55 °C 38 A • at 60 °C 37 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 Mo marking / according to UL 489 / 100%-rated breaker No operational current 40 A • at 40 °C 39 A • at 50 °C 38 A • at 65 °C 37 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 40 A • at 40 °C 40 A • at 45 °C 39 A • at 55 °C 38 A • at 65 °C 37 A	electrical endurance (operating cycles) / at AC-1 / at 690 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 No 40 A • at 40 °C 40 A • at 45 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 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 No Net Weight 0.38 kg Current No marking / according to UL 489 / 100%-rated breaker No operational current 40 A • at 40 °C 40 A • at 45 °C 39 A • at 50 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	electrical endurance (operating cycles) / at 600 V	4 000
product function No • communication function No • other measurement function No Net Weight 0.38 kg Current Marking / according to UL 489 / 100%-rated breaker marking / according to UL 489 / 100%-rated breaker No operational current 40 A • at 40 °C 40 A • at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A		No
• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current40 A• at 40 °C40 A• at 55 °C39 A• at 55 °C38 A• at 60 °C37 A• at 65 °C37 A	ground-fault monitoring version	without
• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current40 A• at 40 °C40 A• at 45 °C39 A• at 55 °C39 A• at 55 °C38 A• at 60 °C37 A• at 65 °C37 A	product function	
Net Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current40 A• at 40 °C40 A• at 45 °C39 A• at 55 °C39 A• at 65 °C37 A• at 65 °C37 A	 communication function 	No
Current No marking / according to UL 489 / 100%-rated breaker No operational current 40 A • at 40 °C 40 A • at 45 °C 39 A • at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breakerNooperational current40 A• at 40 °C40 A• at 45 °C39 A• at 50 °C39 A• at 55 °C38 A• at 60 °C37 A• at 65 °C37 A	Net Weight	0.38 kg
operational current 40 A • at 40 °C 40 A • at 45 °C 39 A • at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	Current	
• at 40 °C 40 A • at 45 °C 39 A • at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	marking / according to UL 489 / 100%-rated breaker	No
• at 45 °C 39 A • at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	operational current	
• at 50 °C 39 A • at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	• at 40 °C	40 A
• at 55 °C 38 A • at 60 °C 37 A • at 65 °C 37 A	• at 45 °C	39 A
• at 60 °C 37 A • at 65 °C 37 A	• at 50 °C	39 A
• at 65 °C 37 A	• at 55 °C	38 A
	• at 60 °C	37 A
• at 70 °C 36 A	● at 65 °C	37 A
	● at 70 °C	36 A

Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	S			
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	65 kA			
• at 277 V	25 kA			
• at 347 V	14 kA			
Adjustable parameters				
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic				
 minimum maximum 	40 A 40 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	400 A			
• maximum	400 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	28 40 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]	1 in			
width	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				

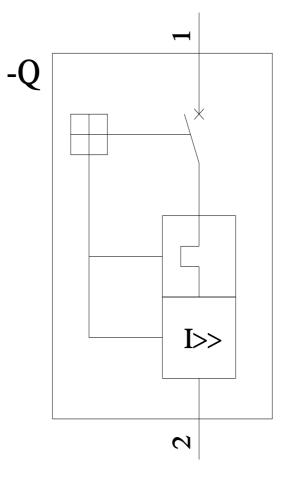
	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping
EHC	RCM	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	ABS
Marine / Shipping				other	
		Lloyd's Register us	RMRS RMRS	<u>Confirmation</u>	<u>Miscellaneous</u>
other					
	•	se/siemens-wind-down-russian-b	usiness		_
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iemens is working or lease contact your loca AC relevant market (of formation on the pac ttps://support.industry formation- and Down ttp://www.siemens.com ndustry Mall (Online of ttps://mall.industry.siem ervice&Support (Mar	al Siemens office on the ther than the sanctione ckaging siemens.com/cs/ww/en hloadcenter (Catalogs h/lowvoltage/catalogs ordering system) mens.com/mall/en/en/C huals, Certificates, Ch	e status of validity of the EAC cert d EAEU member states Russia or /view/109813875	Belarus).	end to import or offer to sup	ply these products to a

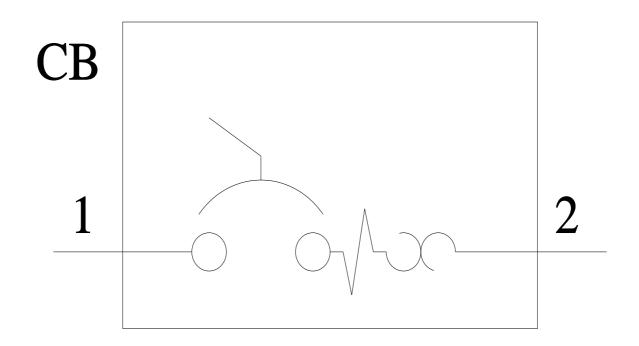












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