SIEMENS

Data sheet

3VA5130-4ED11-1AA0

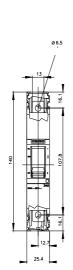


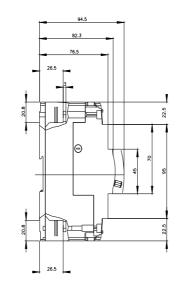
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277V 1-pole, line protection TM210, FTFM, In=30A overload protection Ir=30A fixed short-circuit protection li=10 x In UL 489 SB (naval), 50° C without connection

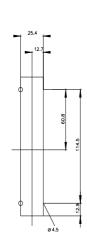
product brand name SENTRON product designation / according to UL file SEAM design of the product System protection design of the product facording to UL 489 / Hearing, Arr Conditioning, and Refigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / Hegh-intensity- Dachage circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / Switching Duty dricuit breaker (WID Type) No design of the load switch / according to UL 489 / Switching Duty dricuit breaker (WID Type) No design of the load switch / according to UL 489 / Switching Duty dricuit breaker (WID Type) No design of the ore-current release Ll number of poles 1 power loss [W] / maximum 3.2 W power loss [W] / maximum 3.2 W power loss [W] / for rated value of the current / at AC / in hot operating value / per pole 8.000 electrical endurance (operating cycles) / at AC-1 / at 890 V 4.000 electrical endurance (operating cycles) / at ACO / at 890 V 4.000 electrical endurance (operating cycles) / at ACO / at 890 V 4.000 ground-fault monitoring version without product feature / for neutral conductors /	Model	
product designation / according to UL file SEAM design of the product System protection design of the load switch / according to UL 489 / Heating, Ar Yes Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity: Yes Discharge circuit breaker (HIT Type) Yes design of the load switch / according to UL 489 / Switching Duty No circuit breaker (HIT Type) No design of the overcurrent release TM210 protection function of the overcurrent release 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 ground-fault monitoring version without product feature / fo	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 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 (GND Type) No design of the load switch / according to UL 489 / Network No cordination of the overcurrent release TM210 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. 3.2 W operating solte / 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 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-fault monitoring cycles) / at AC-1 / at 680 V 4 000 <	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 overcurrent release LL number of poles 1 contrait tochnical data	product designation / according to UL file	SEAM
Conditioning, and Refrigeration circuit breaker (HACR Type) 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 Dreaker (SWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release LI number of poles 1 Conditioning are (SWD Type) 3.2 W power toss [W] / maximum 3.2 W power toss [W] / for rated value of the current / at AC / in hot operating state / per pole 3.2 W electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / typical 8 000 electrical endurance (operating cycles) / ta 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 flasture / for neutral conductors / upgradable/retrofittable No other measurement function No other measurement function No other measurement function No other measurement function 30 A	design of the product	System protection
Discharge circuit breaker (HID Type) No design of the load switch / according to UL 489 / Switching Duty No cricuit breaker (SWD Type) TM210 protection function of the overcurrent release Ll number of poles 1 Ceneral technical data		Yes
circuit breaker (SWD Type) Image: Construct the overcurrent release TM210 protection function of the overcurrent release Li number of poles 1 General technical data		Yes
protection function of the overcurrent release L1 number of poles 1 General technical data		No
number of poles 1 General technical data 415 V 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) / 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 AC0 V 8 000 electrical endurance (operating cycles) / at AC0 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 poduct 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 • at 60 °C 28 A • at 65 °	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 3.2 W 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 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 · other measurement function No Net Weight 0.38 kg Current 30 A • at 40 °C 30 A • at 55 °C 28 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 ABO 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 • communication function No Net Weight 0.38 kg Current at 40 °C • at 40 °C 30 A • at 45 °C 29 A • at 50 °C 28 A • at 60 °C 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 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 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without product 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 A • at 60 °C 28 A • at 65 °C 28 A	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 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 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 operational current 30 A • at 40 °C 30 A • at 45 °C 29 A • at 55 °C 28 A • at 66 °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 460 V4 000electrical endurance (operating cycles) / at 480 V8 000electrical endurance (operating cycles) / at 480 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 °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 A80 V 8 000 electrical endurance (operating cycles) / at 80 V 8 000 electrical endurance (operating cycles) / at 80 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 • 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 • at 60 °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 / 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 at 40 °C • at 40 °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 marking / according to UL 489 / 100%-rated breaker No at 40 °C 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 • at 65 °C 28 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 30 A • 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 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 30 A • at 40 °C 29 A • at 50 °C 29 A • at 55 °C 28 A • at 60 °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 currentNo• at 40 °C30 A• at 45 °C29 A• at 50 °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 °C29 A• at 60 °C28 A• at 60 °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 No 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 current	Net Weight	0.38 kg
operational 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	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	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	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
width [in]	1 in
width	25.4 mm 3.01 in
_ depth [in] depth	76.5 mm
Connections	70.5 mm
	Without connection
arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit	Without connection 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 operation / maximum 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	

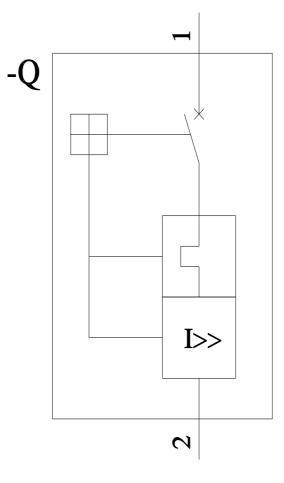
General Product Ap- proval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping		
EHC	RCM	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	ABS		
Marine / Shipping				other			
BUREAU VERITAS		Lloyd's Register us	KMRS	<u>Miscellaneous</u>	<u>Confirmation</u>		
other							
Further information 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=3VA5130-4ED11-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA5130-4ED11-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5130-4ED11-1AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications							

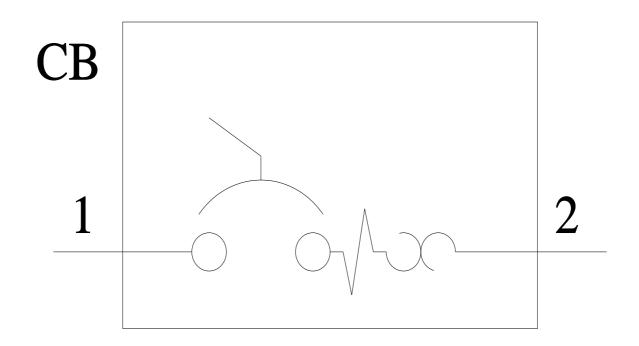












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Siemens: 3VA51304ED111AA0