SIEMENS

Data sheet

3VA5190-6ED11-1AA0

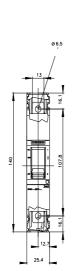


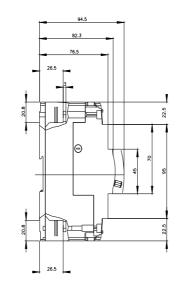
circuit breaker 3VA5 UL frame 125 breaking capacity class H 50kA @ 277V 1-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A fixed short-circuit protection li=10 x In UL 489 SB (naval), 50° C without connection

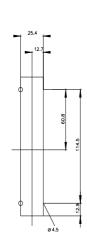
product brand name SENTRON product designation Molded-case circuit breaker (MACR) design of the product System protection design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HACR Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (BVD Type) No design of the overcurrent release Ll number of poles 1 General technical data Conditioning (WI / Instant) operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 W operating state / per pole 7.13 W 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 elect	Model	
product designation / according to UL file H5EAM design of the product System protection 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 (HACR Type) No design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (HACR Type) No design of the overcurrent release TM210 protection function of the overcurrent release Ll number of poles 1 General technical data Operating voltage / at AC / rated value operating voltage / at AC / rated value of the current / at AC / in hot operating voltage / at AC / rated value of the current / at AC / in hot operating voltage / at AC-1 / at 880/415 V 8 000 electrical endurance (operating voles) / at AC-1 / at 880/415 V 8 000 electrical endurance (operating voles) / at ACO / at 80 V 8 000 electrical endurance (operating voles) / at ACO / at 80 V 8 000 9 000 9 00 electrical endurance (operating voles) / at ACO / at 80 V 9 000 90 A 0.38 kg Current • at 40 °C 90 A • at 40 °C 90 A • at 40 °C <	product brand name	SENTRON
design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refigeration 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 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the overcurrent release IL number of poles 1 Concrait technical data Operating voltage / at AC / rated value operating voltage / at AC / rated value 415 V power loss [W] / for rated value of the current / at AC / in hot operating voltage / at AC / rated value 7.13 W power loss [W] / for rated value of the current / at AC / in hot operating voltage / at AC / rated value 4000 electrical endurance (operating cycles) / ta AC-1 / at 800 V 8 000 electrical endurance (operating cycles) / at AC-1 / at 800 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-icut and overload proof No ground-fault monitoring version without product function No other measurement function No other measurement function No other measurement function No other measurem	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 (WD Type) No design of the overcurrent release TM210 protection function of the overcurrent release II Conoral tochnical data TM210 operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 W power loss [W] / for rated value of the current / at AC / in hot operating soltage / at AC / rated value 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 860 V 4 000 electrical endurance (operating cycles) / at AC-1 / at 660 V 4 000 electrical endurance (operating cycles) / at AC0 / in K00 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overload proof without product function No • communication function No • communication function No • cottor 90 A • at 40 °C 88 A • at 40 °C 88 A • at 45 °C 88 A	product designation / according to UL file	H5EAM
Conditioning, and Refrigeration circuit breaker (HACR Type) No design of the load switch / according to UL 489 / High-Intensity- bischarge circuit breaker (HID Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the overcurrent release Ll number of poles 1 Concart tochnical data Concart tochnical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 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) / 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 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8 000 ground-fauture / for neutral conductors / upgradable/retrofitt	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 0 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 7.13 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / tat AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / tat AO / 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 feature / for neutral conductors / upgradable/retrofittable No , short-circuit and overload proof 0 ground-fault monitoring version without product function No <tr< td=""><td></td><td>Yes</td></tr<>		Yes
circuit breaker (SWD Type) TM210 protection function of the overcurrent release Ll number of poles 1 Genoral technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 W operating state / per pole 7.13 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 AC0 V 8 000 electrical endurance (operating cycles) / at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No ground-fault monitoring version without product function No • communication function No • other measurement function No • other M 90 A • at 40 °C 88	° ° ,	No
protection function of the overcurrent release LI number of poles 1 General technical data		No
number of poles 1 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) / 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 8 000 electrical endurance (operating cycles) / at 480 V 8 000 ground-fault monitoring version vithout product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof No ground-fault monitoring version without volta without product feature / for neutral conductors / upgradable/retrofittable No outrant volta without product function volta without volta without volta with weight 0.38 kg 0.38 kg	design of the overcurrent release	TM210
General technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.13 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / typical 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 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 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 operating / according to UL 489 / 100%-rated breaker No operating / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A 86 A	protection function of the overcurrent release	U
operating voltage / at AC / rated value 415 V power loss [W] / maximum 7.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.13 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 0 / at 600 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 • other measurement function No operating / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 40 °C 88 A • at 40 °C 88 A • at 50 °C	number of poles	1
power loss [W] / maximum 7.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 7.13 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-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 • other measurement function No • other measurement function No operating / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A	General technical data	
power loss [W] / for rated value of the current / at AC / in hot 7.13 W operating state / per pole 7.13 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 A80 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 marking / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 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 AC-1 / at 690 V4 000electrical endurance (operating cycles) / at 480 V8 000electrical endurance (operating cycles) / at 600 V4 000electrical endurance (operating cycles) / at 600 V4 000product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proofNoground-fault monitoring versionwithoutproduct functionNo• other measurement functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breaker• at 40 °C90 A• at 40 °C90 A• at 45 °C88 A• at 50 °C86 A	power loss [W] / maximum	7.13 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 A80 V 8 000 electrical endurance (operating cycles) / at A00 V 4 000 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 Net Weight 0.38 kg Current No • at 40 °C 90 A • at 45 °C 88 A • at 45 °C 86 A		7.13 W
electrical endurance (operating cycles) / at AC-1 / at 690 V 4 000 electrical endurance (operating cycles) / at 600 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 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 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 No ground-fault monitoring version without product function other measurement function • other measurement function No Net Weight 0.38 kg Current No at 40 °C 90 A • at 40 °C 88 A • at 45 °C 88 A • at 50 °C 86 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 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 • at 40 °C 90 A • at 40 °C 88 A • at 45 °C 88 A • at 50 °C 86 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 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 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 marking / according to UL 489 / 100%-rated breaker No No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 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 No No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A		No
· communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current90 A• at 40 °C90 A• at 45 °C88 A• at 50 °C86 A	ground-fault monitoring version	without
• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current• at 40 °C• at 40 °C90 A• at 45 °C88 A• at 50 °C86 A	product function	
Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No operational current at 40 °C • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A	 communication function 	No
Current No marking / according to UL 489 / 100%-rated breaker No operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breakerNooperational current90 A• at 40 °C90 A• at 45 °C88 A• at 50 °C86 A	Net Weight	0.38 kg
operational current 90 A • at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A	Current	
• at 40 °C 90 A • at 45 °C 88 A • at 50 °C 86 A	marking / according to UL 489 / 100%-rated breaker	No
• at 45 °C 88 A • at 50 °C 86 A	operational current	
• at 50 °C 86 A	• at 40 °C	90 A
	• at 45 °C	88 A
	• at 50 °C	86 A
• at 55 °C 84 A	● at 55 °C	84 A
• at 60 °C 82 A	• at 60 °C	82 A
• at 65 °C 80 A	● at 65 °C	80 A
• at 70 °C 79 A	● at 70 °C	79 A

Switching capacity according to IEC 60947				
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			
Switching capacity according to UL 489				
current breaking capacity				
• at 120 V	100 kA			
• at 277 V	50 kA			
• at 347 V	18 kA			
Adjustable parameters				
adjustable response value setting current (Ir) / of the L-trip / with				
I2t characteristic				
• minimum	90 A			
maximum	90 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	900 A			
• maximum	900 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	90 90 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				
	IP40			
protection class IP / on the front				
ambient temperature	-25 °C			
during operation / minimum	-25 °C 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	Yes			
vessels) / supplement SB				
General Product Approval				
	Miscellaneous			
CCC UL	UL VDE			

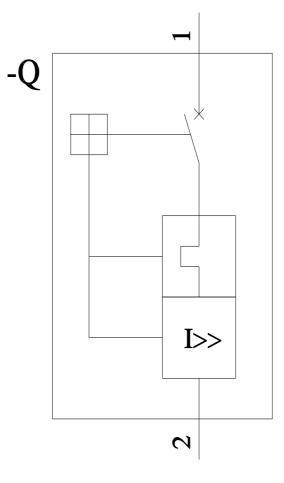
proval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping
EHC	RCM	CE EG-Konf.	UK CA	Type Test Certific- ates/Test Report	ABS
Marine / Shipping				other	
		Lloyd's Register	KMRS	<u>Miscellaneous</u>	<u>Confirmation</u>
other					
Miscellaneous					
rther information					
https://press.siemens.co	n the renewal of the c	ase/siemens-wind-down-russian- urrent EAC certificates. e status of validity of the EAC cer	tification if you inte	end to import or offer to supp	ply these products to a
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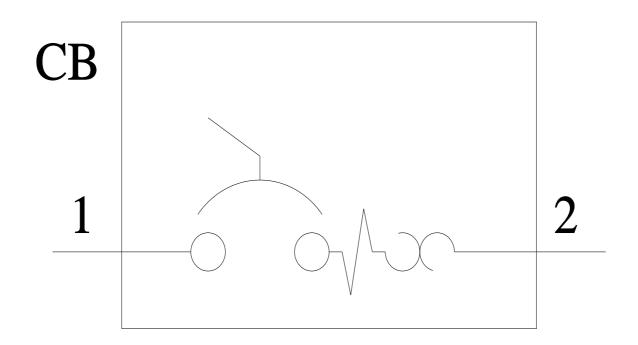












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Mouser Electronics

Authorized Distributor

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Siemens: 3VA51906ED111AA0