SIEMENS

Data sheet

3VA5160-5ED11-1AA0

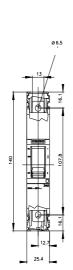


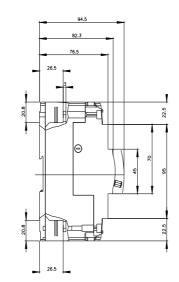
circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 277V 1-pole, line protection TM210, FTFM, In=60A overload protection Ir=60A fixed short-circuit protection Ii=10 x In UL 489 SB (naval), 50° C without connection

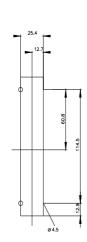
product brand name SENTRON product designation Molded-case circuit breaker product designation / according to UL file MeAM design of the product System protection design of the load switch / according to UL 489 / Heating, Air Yes Conditioning, and Netfigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL 489 / High-Intensity- Discharge circuit breaker (ITU Type) No design of the load switch / according to UL 489 / Switching Duty circuit Dreaker (ISWD Type) No design of the overcurrent release TM210 protection function of the overcurrent release IL number of poles 1 Ceneral technical data 513 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 513 W mechanical service Ific (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at AC-1 / at 380/415 V 8000 electrical endurance (operating cycles) / at AC V 8000 electrical endurance (operating cycles) / at AC0 V 8000 electrical endurance (operating cycles) / at AC0 V 8000 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 / 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 (HACR Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (GWD Type) No design of the load switch / according to UL 489 / Switching Duty circuit breaker (GWD Type) No design of the overcurrent release Ll protection function of the overcurrent release Ll operating voltage / at AC / rated value 415 V power loss [W] / for rated value of the current / at AC / in hot operating stel / per pole 5.13 W electrical endurance (operating cycles) / at AC-1 / at 800 V 8 000 electrical endurance (operating cycles) / at AC0 / at 80 V 8 000 electrical endurance (operating cycles) / at 800 V 4 000 ground fault monitoring version without product fault monitoring version without product fauler / for neutral conductors / upgradable/retrofittable	product brand name	SENTRON
production 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 (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 owercurrent release TM210 protection function of the overcurrent release Ll number of poles 1 Goneral technical data 513 W 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 513 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at 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-circuit and overload proof No ground-fault monitoring version without product feature / for neutral conductors / upgradable/retrofittable 0.38 kg	product designation	Molded-case circuit breaker
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HAOR 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 (WID 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 Conoral technical data 5.13 W power loss [W] / for rated value of the current / at AC / in hot operating soltae / at AC / 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) / ta AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / at AC0 / at 480 V 8 000 electrical endurance (operating cycles) / at AC0 / with 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof without product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof No vertaing / according to UL 489 / 100%-rated breaker No operational current 0.38 kg Curront 60 A <td>product designation / according to UL file</td> <td>MEAM</td>	product designation / according to UL file	MEAM
Conditioning, and Refrigeration circuit breaker (HACR Type) No design of the load switch / according to UL 489 / High-Intensity- 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 load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type) No design of the overcurrent release Ll number of poles 1 Concart technical data 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 5.13 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 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 version without product fauter / for neutral conducto	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 L1 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 5.13 W mechanical service life (operating cycles) / typical 20 000 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 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 4 000 product feature / for neutral conductors / upgradable/retrofittable No / short-circuit and overlag orging / at 480 V 4 000 product function No • communication function No • other measurement function No • other measurement function		Yes
circuit breaker (SWD Type) TM210 design of the overcurrent release TM210 protection function of the overcurrent release Ll number of poles 1 Conoral technical data operating voltage / at AC / rated value 415 V power loss [W] / rated value of the current / at AC / in hot operating state / per pole 5.13 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 measurement function No • other measurement function 000 A • at 40 °C 60 A • at 45 °C 59 A		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 800/15 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 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 / short-circuit and overload proof ground-fault monitoring version No e other measurement function No o.38 kg Current cacording to UL 489 / 100%-rated breaker No operational current 60 A 60 A e at 40 °C 60 A 60 A e at 40 °C	design of the overcurrent release	TM210
General technical data operating voltage / at AC / rated value 415 V power loss [W] / maximum 5.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 5.13 W mechanical service life (operating cycles) / typical 20 000 electrical endurance (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 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 operating / according to UL 489 / 100%-rated breaker No operating / according to UL 489 / 100%-rated breaker No operating / according to UL 489 / 100%-rated breaker No operational current 60 A • at 40 °C 6	protection function of the overcurrent release	L
operating voltage / at AC / rated value 415 V power loss [W] / maximum 5.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 5.13 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 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-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 operating / according to UL 489 / 100%-rated breaker No operational current 60 A • at 40 °C 60 A • at 40 °C 59 A • at 50 °C 58 A	number of poles	1
power loss [W] / maximum 5.13 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 5.13 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 ACO / at 680 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 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 A	General technical data	
power loss [W] / for rated value of the current / at AC / in hot 5.13 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 AB 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 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 other measurement function other measurement function No other measurement function No operational current at 40 °C 60 A at 45 °C 59 A at 50 °C 58 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• communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breaker• at 40 °C60 A• at 40 °C59 A• at 50 °C58 A	power loss [W] / maximum	5.13 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 A0 V 8 000 electrical endurance (operating cycles) / at A0 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 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 A		5.13 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 • at 40 °C 60 A • at 40 °C 59 A • at 50 °C 58 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 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 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 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 ocmmunication function • communication function No • other measurement function No Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker • at 40 °C 60 A • at 40 °C 59 A • at 50 °C 58 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 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 A	electrical endurance (operating cycles) / at 480 V	8 000
/ short-circuit and overload proof	electrical endurance (operating cycles) / at 600 V	4 000
o o product function No • other measurement function No Net Weight 0.38 kg Current marking / according to UL 489 / 100%-rated breaker No No operational current 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 A		No
· communication functionNo• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current60 A• at 40 °C60 A• at 45 °C59 A• at 50 °C58 A	ground-fault monitoring version	without
• other measurement functionNoNet Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current60 A• at 40 °C60 A• at 45 °C59 A• at 50 °C58 A	product function	
Net Weight0.38 kgCurrentmarking / according to UL 489 / 100%-rated breakerNooperational current60 A• at 40 °C60 A• at 45 °C59 A• at 50 °C58 A	 communication function 	No
Current No marking / according to UL 489 / 100%-rated breaker No operational current 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 A	 other measurement function 	No
marking / according to UL 489 / 100%-rated breakerNooperational current60 A• at 40 °C60 A• at 45 °C59 A• at 50 °C58 A	Net Weight	0.38 kg
operational current 60 A • at 40 °C 60 A • at 45 °C 59 A • at 50 °C 58 A	Current	
• at 40 °C 60 A 60 A • at 45 °C 59 A • at 50 °C 58 A	marking / according to UL 489 / 100%-rated breaker	No
• at 45 °C 59 A • at 50 °C 58 A	operational current	
• at 50 °C 58 A	• at 40 °C	60 A
	• at 45 °C	59 A
• at 55 °C 57 A	• at 50 °C	58 A
	● at 55 °C	57 A
• at 60 °C 56 A	● at 60 °C	56 A
• at 65 °C 55 A	• at 65 °C	55 A
• at 70 °C 54 A	• at 70 °C	54 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	60 A
• maximum	60 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	600 A
• maximum	600 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	42 60 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	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

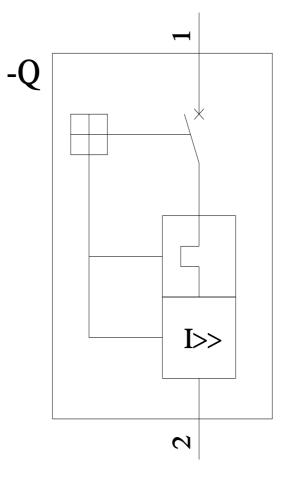
proval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping
EHC	RCM	EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping				other	
		Lloyd's Register uts	KARS RANGE	<u>Confirmation</u>	<u>Miscellaneous</u>
other					
ther information	to exit the Russian m	arket (see here)			
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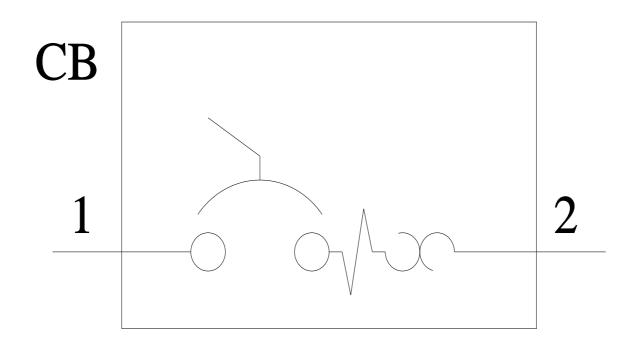












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Mouser Electronics

Authorized Distributor

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Siemens: 3VA51605ED111AA0