## SIEMENS

## Data sheet

## 3VA5160-5ED11-1AA0

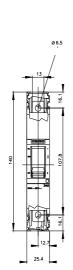


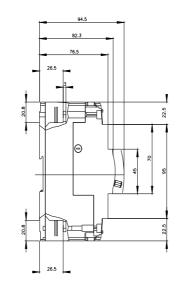
circuit breaker 3VA5 UL frame 125 breaking capacity class M 35kA @ 277V 1-pole, line protection TM210, FTFM, In=60A overload protection Ir=60A fixed short-circuit protection Ii=10 x In UL 489 SB (naval), 50° C without connection

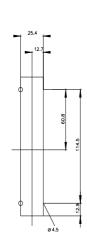
product brand name         SENTRON           product designation         Molded-case circuit breaker           product designation / according to UL file         MeAM           design of the product         System protection           design of the load switch / according to UL 489 / Heating, Air         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 <ul> <li>other measurement function</li> <li>other measurement function</li> <li>No</li> <li>other measurement function</li> <li>No</li> <li>operational current</li> <li>at 40 °C</li> <li>60 A</li> <li>at 45 °C</li> <li>59 A</li> <li>at 50 °C</li> <li>58 A</li> </ul>	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	<ul> <li>communication function</li> </ul>	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	<ul> <li>other measurement function</li> </ul>	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

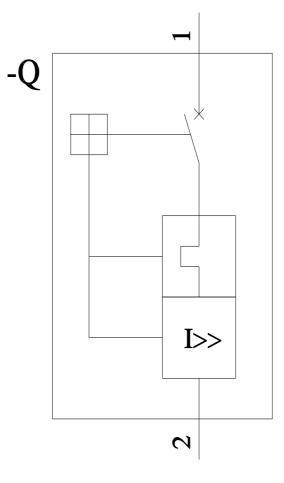
proval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping
EHC	RCM	EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping				other	
		Lloyd's Register uts	KARS RANGE	<u>Confirmation</u>	<u>Miscellaneous</u>
other					
ther information	to exit the Russian m	arket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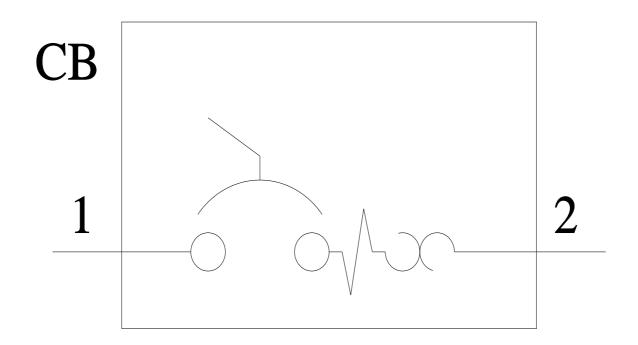












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