SIEMENS

Data sheet

3VA5160-6ED11-1AA0



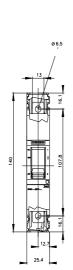
circuit breaker 3VA5 UL frame 125 breaking capacity class H 50kA @ 277V 1-pole, line protection TM210, FTFM, In=60A overload protection Ir=60A fixed short-circuit protection li=10 x In UL 489 SB (naval), 50° C without connection

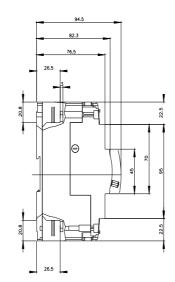
product brand name SENTRON product designation Molded-case circuit breaker product designation / according to UL file H5EAM design of the product System protection design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) No design of the 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 (SWD 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 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 power loss [W] / for rated value of the current / at AC / in hot operating cycles) / at AC-1 / at 380/415 V 8 000 electrical endurance (operating cycles) / typical 20 000 electrical endurance (operating cycles) / at 460 V 4 000 electrical endurance (operating cycles) / at 400 V 8 000 <	Model	
product designation / according to UL. file H5EAM design of the load switch / according to UL. 489 / Heating, Air Yes Conditioning, and Refrigeration circuit breaker (HACR Type) Yes design of the load switch / according to UL. 489 / High-Intensity- No Discharge circuit breaker (HID Type) No design of the load switch / according to UL. 489 / Switching Duty No 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	product brand name	SENTRON
protection 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 (HD 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 TM210 protection function of the overcurrent release Ll number of poles 1 General technical data 5.13 W operating voltage / at AC / rated value 415 V power loss [W] / maximum 5.13 W 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 V at 600 V 4 000 product feature / for neutral conductors / upgradable/retrofittable No /stort-circuit and overload proof without </td <td>product designation</td> <td>Molded-case circuit breaker</td>	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) 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 TM210 protection function of the overcurrent release Ll number of poles 1 General technical data 613 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 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 690 V 4 000 electrical endurance (operating cycles) / at AC / 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 operating cyclesi / at 600 V 4 000 <td>product designation / according to UL file</td> <td>H5EAM</td>	product designation / according to UL file	H5EAM
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product function No • communication function No • other measurement function No		No
communication function other measurement function No	ground-fault monitoring version	without
other measurement function No	product function	
	 communication function 	No
	 other measurement function 	No
INET WEIGHT U.38 KG	Net Weight	0.38 kg
Current	Current	
marking / according to UL 489 / 100%-rated breaker No	marking / according to UL 489 / 100%-rated breaker	No
operational current	operational current	
• at 40 °C 60 A	• at 40 °C	60 A
• at 45 °C 59 A	● at 45 °C	59 A
• at 50 °C 58 A	● at 50 °C	58 A
• at 55 °C 57 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

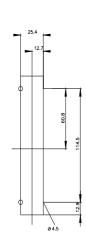
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter
Switching capacity 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 l2t 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 Without
type of electrical connection / for main current circuit	Without
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts	0
Accessories	Na
product extension / optional / motor drive	No
Environmental conditions	
protection class IP / on the front	IP40
ambient temperature	25 °C
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	

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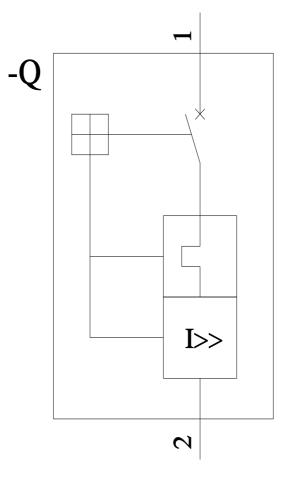
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General Product Ap- proval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping		
EHC	RCM	UK CA	CE EG-Konf.	Type Test Certific- ates/Test Report	ABS		
Marine / Shipping				other			
BUREAU VERITAS		Llovd's Register us	KMRS RARS	<u>Confirmation</u>	<u>Miscellaneous</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/cs/ww/en/ps/3VA5160-6ED11-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3VA5160-6ED11-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.aiemens.com/biddb/cax_en.aspx?mlfb=3VA5160-6ED11-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.siemens.com/biddb/cax_en.aspx?mlfb=3VA5160-6ED11-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.siemens.com/cax							
http://www.siemens.com Tender specifications http://www.siemens.com							

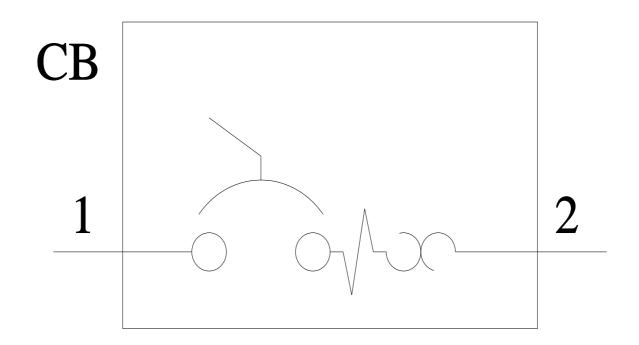












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