3VA5290-7ED36-1AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CFAM
Product version	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 overcurrent release	TM210
protection function of the overcurrent release	LI
number of poles	3
General technical data	
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	25 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.2 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	without
product function	
 communication function 	No
other measurement function	No
Net Weight	2.308 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	90 A
● at 45 °C	90 A
● at 50 °C	90 A
● at 55 °C	87.3 A
• at 60 °C	85.5 A

* at 70 °C Switching capacity according to IEC 60947 switching capacity class of the circuit breaker design of short-dircuit protection circuit breaker device manual; link to be found under Service & Support in the last chapter Switching capacity according to UL 489 breaking capacity according to UL 489 breaking capacity current at 240 V at 480 V at 480 V at 480 V distable parameters Adjustable response value current / Ig min. Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ig min. 40 90 A	● at 65 °C	82.8 A
Switching capacity according to IEC 60947 switching capacity according to IEC 60947 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 breaking capacity according to UL 489 breaking capacity current • at 240 V • at 480 V • at 800 V Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ig min. Ground fault protection / tripping switchable / I2E=ON/OFF Mechanical Design Height [In] Fight [In] Width 195 mm depht [In] depht [In] depht [In] 3.27 in depht [In] Sarrangement of electrical connectors / for main current circuit Type of connectable conductor cross-section, round conductor terminal, stranded Auxillary circuit product component • undervoltage release • voltage freese • voltage freese • voltage freese rounder of CO contacts / for suxiliary contacts Professionals Pr		
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Adjustable response value current / Ig min. Ground fault protection / tripping switchable / I2t=ON/OFF Mochanical Dosign height [in]	Adjustable parameters	
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conductor terminal, stranded Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum • during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	type of electrical connection / for main current circuit	circular conductor terminal on both sides
product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / maximum • 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		1 x (6 AWG - 350 kcmil)
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during storage / maximum 80 °C Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Yes	during operation / maximum	70 °C
Certificates certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	during storage / minimum	-40 °C
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	during storage / maximum	80 °C
combat vessels) / supplement SB	Certificates	
General Product Approval EMC Declaration of Conformity		Yes
	General Product Approval	EMC Declaration of Conformity



Confirmation









Marine / Shipping

other

Miscellaneous



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=3VA5290-7ED36-1AA0

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3VA5290-7ED36-1AA0

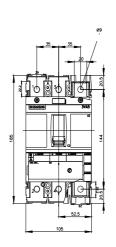
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5290-7ED36-1AA0

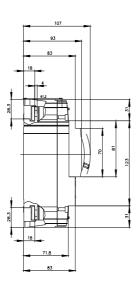
CAx-Online-Generator

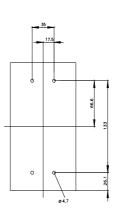
http://www.siemens.com/cax

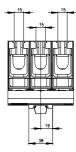
Tender specifications

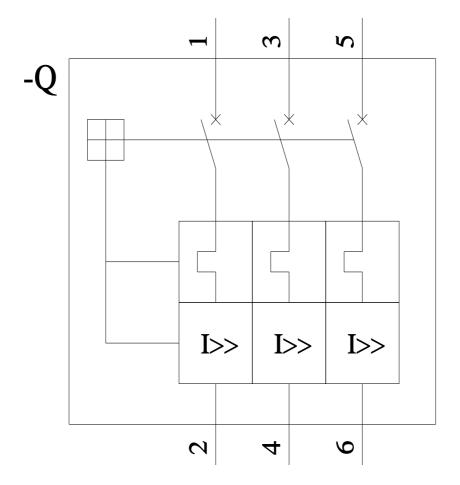
http://www.siemens.com/specifications

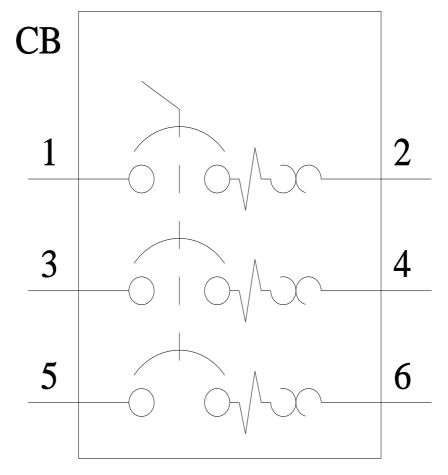












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