3VA5290-7ED32-1AA0

## **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. nut keeper kit 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	
<ul> <li>communication function</li> </ul>	No
other measurement function	No
Net Weight	2.252 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

• during storage / minimum     • during storage / maximum  Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  General Product Approval	Yes  EMC Declaration of Conformity
during storage / maximum  Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	
during storage / maximum  Certificates	
during storage / maximum	
	80 °C
during operation? maximum     during storage / minimum	-40 °C
during operation / maximum     during operation / maximum	70 °C
during operation / minimum	-25 °C
protection class IP / on the front ambient temperature	IP40
	ID40
Environmental conditions	
product extension / optional / motor drive	Yes
Accessories	
number of CO contacts / for auxiliary contacts	0
trip indicator	No
voltage trigger	No
product component  • undervoltage release	No
Auxiliary circuit	
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver
screw, width x thickness , max.	20 x 0 111111
screw, width x thickness , min.  Type of connectable conductor cross-section, connection	25 x 8 mm
Type of connectable conductor cross-section, connection	13 x 1 mm
type of electrical connection / for main current circuit	nut keeper kit on both ends
arrangement of electrical connectors / for main current circuit	Front connection
Connections	
depth	83 mm
depth [in]	3.27 in
Width	105 mm
width [in]	4.13 in
Height	185 mm
height [in]	7.28 in
Mechanical Design	
Ground fault protection / tripping switchable / I2t=ON/OFF	No
Adjustable response value current / lg min.	90 A
Adjustable response value current / lg min.	90 A
Adjustable parameters	
● at 600 V	35 kA
• at 480 V	100 kA
• at 240 V	200 kA
breaking capacity current	
Switching capacity according to UL 489	
200.gri or oriott oriodit protootion	circuit breaker device manual; link to be found under Service & Suppo in the last chapter
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
switching capacity class of the circuit breaker	C
Switching capacity according to IEC 60947	70.27
• at 70 °C	79.2 A
● at 65 °C	82.8 A

Confirmation











Marine / Shipping

other





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=3VA5290-7ED32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5290-7ED32-1AA0

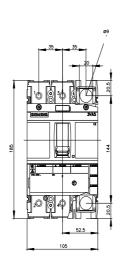
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5290-7ED32-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5290-7ED32-1AA0</a>

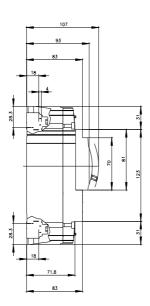
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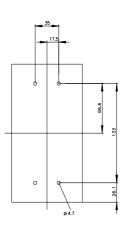
http://www.siemens.com/cax

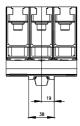
**Tender specifications** 

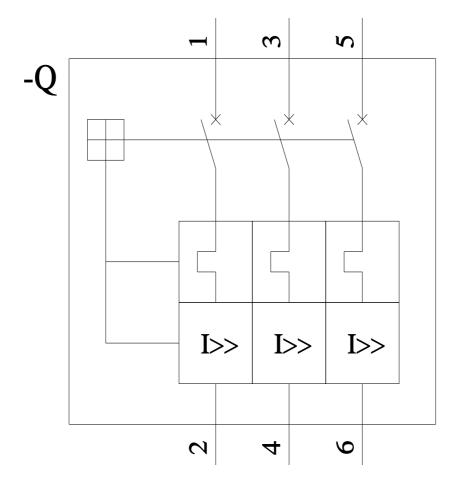
http://www.siemens.com/specifications

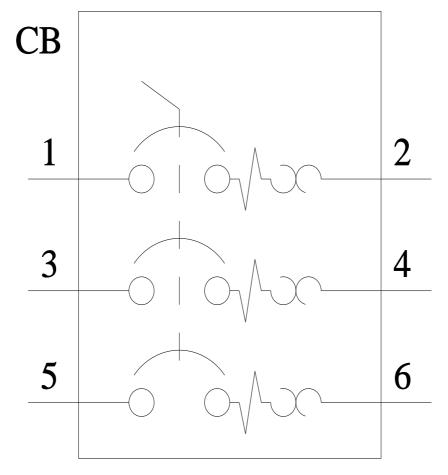












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