3VA5222-5EC32-1AA0

## **Data sheet**



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=225A overload protection Ir=225A fixed short-circuit protection Ii=5...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	MFAM
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	TM230
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	51 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	17.07 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	2.192 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
● at 40 °C	225 A
● at 45 °C	220 A
● at 50 °C	216 A
● at 55 °C	211 A
• at 60 °C	206 A

during operation / maximum     during storage / minimum     during storage / maximum      during storage / maximum  Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB  General Product Approval	70 °C -40 °C 80 °C  Yes  EMC Declaration of Conformity
during operation / maximum     during storage / minimum     during storage / maximum  Certificates  certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	-40 °C 80 °C
<ul> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul> Certificates	-40 °C 80 °C
<ul> <li>during operation / maximum</li> <li>during storage / minimum</li> <li>during storage / maximum</li> </ul>	-40 °C
<ul><li>during operation / maximum</li><li>during storage / minimum</li></ul>	-40 °C
during operation / maximum	
	/() <sup>-</sup> (,
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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	
of the switch (N, 2, 4, 6)	
design of the surface / of the connections / on the bottom	silver
Type of connectable conductor cross-section, connection screw, width x thickness, max.	25 x 8 mm
screw, width x thickness , min.	
Type of connectable conductor cross-section, connection	nut keeper kit on both ends 13 x 1 mm
circuit type of electrical connection / for main current circuit	nut keener kit on hoth ends
arrangement of electrical connectors / for main current	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.	225 A
Adjustable response value current / lg min.	225 A
Adjustable parameters	
• at 600 V	18 kA
● at 480 V	35 kA
• at 240 V	85 kA
breaking capacity current	
Switching capacity according to UL 489	
accign of chert cheat procession	circuit breaker device manual; link to be found under Service & Support 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	M
Switching capacity according to IEC 60947	
• at 70 °C	197 A
● at 65 °C	201 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=3VA5222-5EC32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-5EC32-1AA0

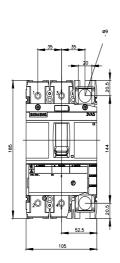
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5222-5EC32-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5222-5EC32-1AA0</a>

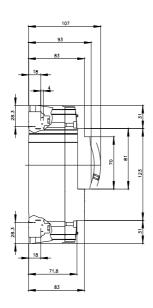
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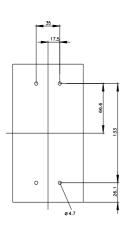
http://www.siemens.com/cax

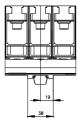
**Tender specifications** 

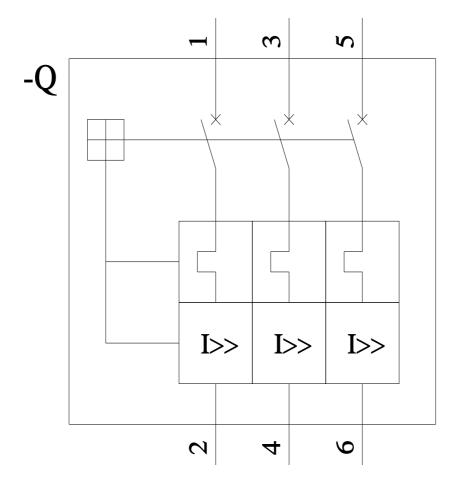
http://www.siemens.com/specifications

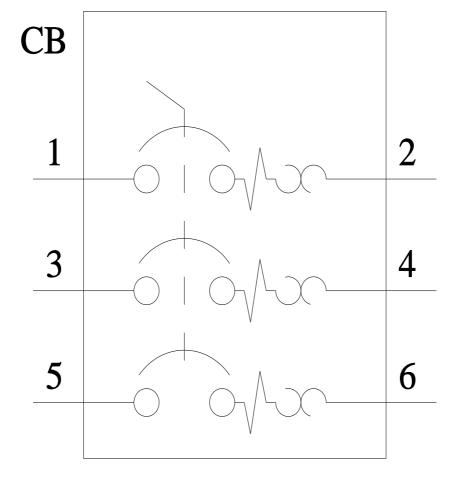












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