## **SIEMENS**

## **Data sheet**

3VA5220-7EC32-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM230, FTAM, In=200A overload protection Ir=200A fixed short-circuit protection li=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	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	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	43 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	14.17 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	200 A			
● at 45 °C	194 A			
● at 50 °C	189 A			
● at 55 °C	183 A			
• at 60 °C	178 A			

Confirmation		_		
General Product Approval		EMC	Declaration of Conformity	
combat vessels) / supplement SB	168			
Certificates  certificate of suitability / as approval for NAVAL (no	Yes			
	30 C			
<ul><li>during storage / minimum</li><li>during storage / maximum</li></ul>	-40 °C	-40 °C		
during operation / maximum		70 °C		
during operation / minimum		-25 °C		
ambient temperature	05.00			
protection class IP / on the front	_ IP40			
Environmental conditions				
product extension / optional / motor drive	Yes			
accessories	V			
number of CO contacts / for auxiliary contacts	0			
trip indicator  pumber of CO contacts / for swillian / contacts	_ No			
voltage trigger     trip indicator	No			
undervoltage release     veltage trigger		No No		
product component	A.I.			
uxiliary 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			
Type of connectable conductor cross-section, connection screw, width x thickness , min.	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	_	connection		
connections				
depth	83 mr	П		
depth [in]	3.27 in			
Width	105 mm			
width [in]	-	4.13 in		
Height	185 mm			
height [in]	_	7.28 in		
lechanical Design				
Ground fault protection / tripping switchable / I2t=ON/OFF	No			
Adjustable response value current / Ig min.	200 A			
Adjustable response value current / lg min.	_ 200 A			
djustable parameters				
• at 600 V	35 kA			
• at 480 V	100 kA			
• at 240 V	200 k			
breaking capacity current				
witching capacity according to UL 489				
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 class of the circuit breaker	_ C		- DO	
witching capacity according to IEC 60947				
• at 70 °C	167 A	\		
• at 65 °C	172 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=3VA5220-7EC32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-7EC32-1AA0

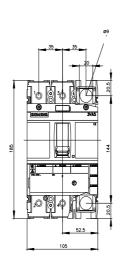
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5220-7EC32-1AA0">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA5220-7EC32-1AA0</a>

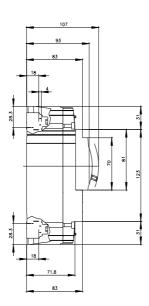
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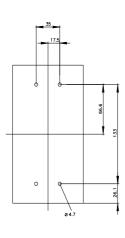
http://www.siemens.com/cax

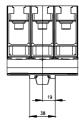
**Tender specifications** 

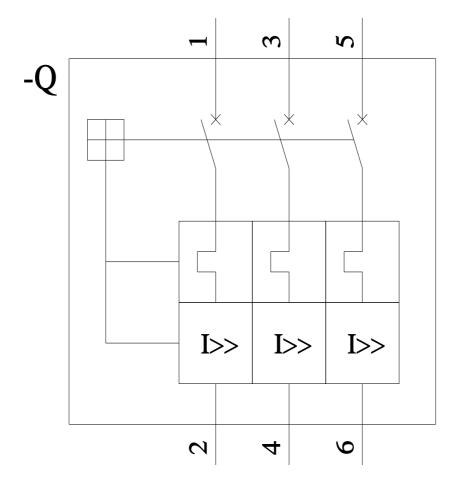
http://www.siemens.com/specifications

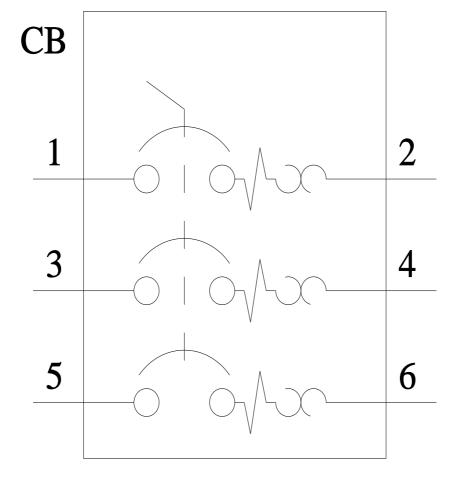












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