SIEMENS

Data sheet

3VA5222-7EC32-1AA0



circuit breaker 3VA5 UL frame 250 breaking capacity class C 100kA @ 480 V 3-pole, line protection TM230, FTAM, In=225A overload protection Ir=225A 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	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			
 communication function 	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	225 A		
● at 45 °C	220 A		
● at 50 °C	216 A		
● at 55 °C	211 A		
● at 60 °C	206 A		

certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB General Product Approval	Yes	IC Declaration of Conformity	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes		
	Yes		
Certificates			
during storage / maximum	80 °C		
during storage / minimum	-40 °C		
during operation / maximum	70 °C		
during operation / minimum	-25 °C		
ambient temperature	11 40		
protection class IP / on the front	IP40		
Environmental conditions			
product extension / optional / motor drive	Yes		
Accessories			
number of CO contacts / for auxiliary contacts	0		
trip indicator	No		
voltage trigger	No		
undervoltage release	No		
product component			
Auxiliary circuit			
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver		
Type of connectable conductor cross-section, connection screw, width x thickness, max.	25 x 8 mm		
screw, width x thickness , min.			
type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection	nut keeper kit on both ends 13 x 1 mm		
circuit			
arrangement of electrical connectors / for main current	Front connection		
Connections			
depth	83 mm		
depth [in]	3.27 in		
Width	4.13 in		
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	35 kA		
• at 480 V	100 kA		
• at 240 V	200 kA		
breaking capacity current			
Switching capacity according to UL 489	in the last	cnapter	
design of short-circuit protection		aker device manual; link to be found under Service & Support	
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case		
switching capacity class of the circuit breaker	С		
Switching capacity according to IEC 60947	191 A		
• at 70 °C	201 A 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=3VA5222-7EC32-1AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5222-7EC32-1AA0

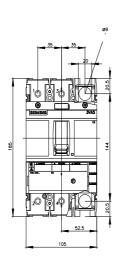
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5222-7EC32-1AA0

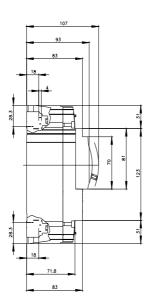
CAx-Online-Generator

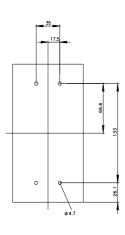
http://www.siemens.com/cax

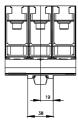
Tender specifications

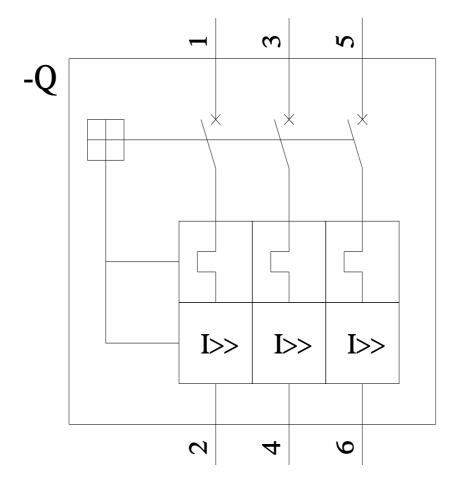
http://www.siemens.com/specifications

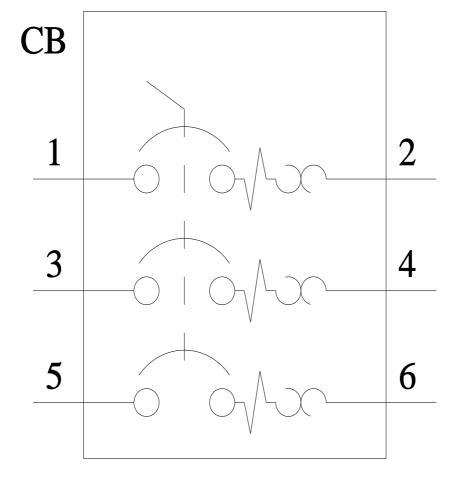












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