SIEMENS

Data sheet

3VA5220-7EC32-0AA0



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 Ii=5...10 x In nut keeper kit on both sides

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	CFAS			
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				
rated insulation voltage Ui	800 V			
Max. rated operational voltage Ue with DC	750 V			
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				
 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	200 A			
● at 45 °C	194 A			
● at 50 °C	189 A			

● at 55 °C	183 A			
● at 60 °C	178 A			
● at 65 °C	172 A			
● at 70 °C	167 A			
Switching capacity according to IEC 60947				
switching capacity class of the circuit breaker	С			
breaking capacity maximum short-circuit current (Icu)				
• at 240 V	200 kA			
• at 210 V	110 kA			
• at 690 V	10 kA			
breaking capacity operating short-circuit current (Ics)				
• at 240 V	200 kA			
• at 415 V	110 kA			
• at 690 V	10 kA			
short-circuit current making capacity (Icm)				
• at 240 V	440 kA			
• at 415 V	242 kA			
• at 690 V	17 kA			
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 current				
• at 240 V	200 kA			
• at 480 V	100 kA			
• at 600 V	35 kA			
	55 MA			
Adjustable parameters				
Adjustable response value current / lg min.	200 A			
Adjustable response value current / Ig min.	200 A			
Ground fault protection / tripping switchable / I2t=ON/OFF	No			
Mechanical Design				
height [in]	7.28 in			
Height	185 mm			
width [in]	4.13 in			
Width	105 mm			
depth [in]	3.27 in			
depth	83 mm			
Connections				
Connections				
arrangement of electrical connectors / for main current circuit	Front connection			
circuit type of electrical connection / for main current circuit	nut keeper kit on both ends			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min.	nut keeper kit on both ends 13 x 1 mm			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max.	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection 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 Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver No No No			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) Auxiliary circuit product component • undervoltage release • voltage trigger • trip indicator number of CO contacts / for auxiliary contacts Accessories	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver No No No No O			
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circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) 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	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver No No No O Yes			
circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) 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	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver No No No No O			
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circuit type of electrical connection / for main current circuit Type of connectable conductor cross-section, connection screw, width x thickness , min. Type of connectable conductor cross-section, connection screw, width x thickness , max. design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) 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	nut keeper kit on both ends 13 x 1 mm 25 x 8 mm silver No No No O Yes			

 during storage / minimum during storage / maximum 		-40 °C 80 °C			
Certificates					
reference code / according to IEC 81346-2		Q			
General Product Approval				EMC	Declaration of Conformity
	<u>Confirmatio</u>	n	ų, "	RCM	CE EG-Konf.
Declaration of Conformity Marine / Shipping	other				
	<u>Miscellaneo</u>	<u>us</u>			
Further information Information- and Downloadcenter (Catalog)			
http://www.siemens.com/lowvoltage/catalogs Industry Mall (Online ordering system)					

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5220-7EC32-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-7EC32-0AA0

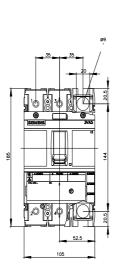
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-7EC32-0AA0

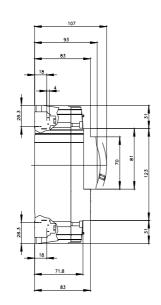
CAx-Online-Generator

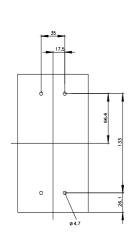
http://www.siemens.com/cax

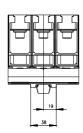
Tender specifications

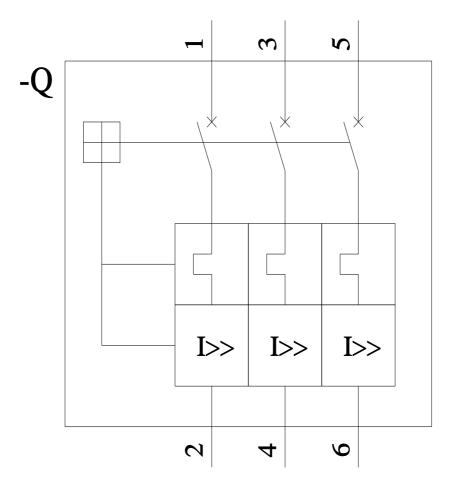
http://www.siemens.com/specifications

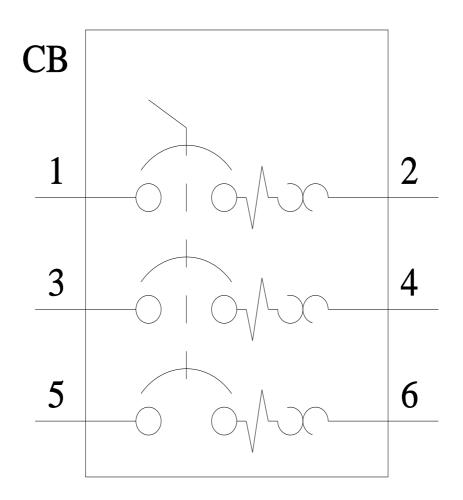












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