3VA5220-5EC31-1AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=200A overload protection Ir=200A fixed short-circuit protection Ii=5...10 x In UL 489 SB (naval), 50° C without connection

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 / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	TM230
protection function of the overcurrent release	Ц
number of poles	3
General technical data	
power loss [W] / maximum	42.5 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 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
Current	
marking / acc. to UL 489 / 100%-rated breaker	No
Max. rated operational current of the frame size	250 A
Courant permanent assigné lu	200 A
operational current	
• at 40 °C	200 A
• at 45 °C	200 A
● at 50 °C	200 A
● at 55 °C	192 A
• at 60 °C	186 A
• at 65 °C	181 A
● at 70 °C	175 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	M
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case

breaking capacity current • at 240 V • at 480 V • at 600 V Adjustable parameters Adjustable response value current / lg min. Adjustable response value current / li max. Adjustable response value current / li mox. Adjustable response value c		circuit breaker device manual; link to be found under Service & Support
breaking capacity current		in the last chapter
• at 240 V • at 480 V • at 600 V • at 600 V • at 600 V * at 600	Switching capacity according to UL 489	
• at 480 V • at 600 V	breaking capacity current	
Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ig min. Adjustable response value current / Ii max. Bround fault protection / tripping switchable / I2t=ON/OFF No Mochanical Dosign Height Is5 mm Width Is6 mm depth Ign 3.3 in depth 83 mm Connections arrangement of electrical connectors / for main current circuit Without connection arrangement of electrical connection / for main current circuit Without connection circuit Without connection Coccessories Product extension / optional / motor drive invironmental conditions protection class IP / on the front ambient temperature • during operation / maximum • during storage / minimum • during storage / maximum	● at 240 V	85 kA
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		EMC







Miscellaneous





Shipping Approval

other





Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

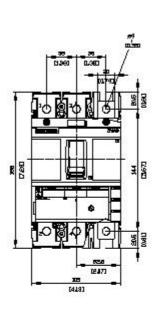
 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5220-5EC31-1AA0}$

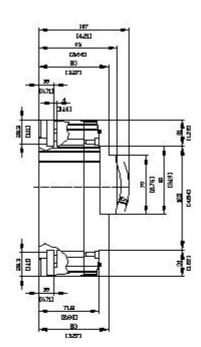
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5220-5EC31-1AA0

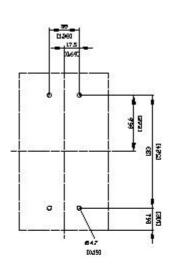
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5220-5EC31-1AA0

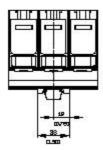
Tender specifications

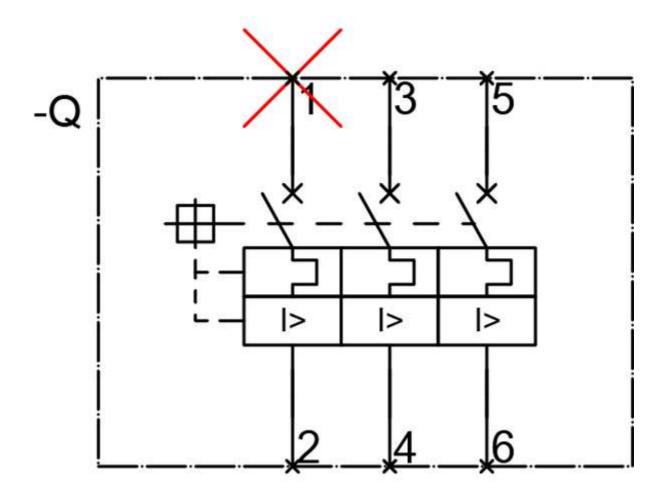
http://www.siemens.com/specifications

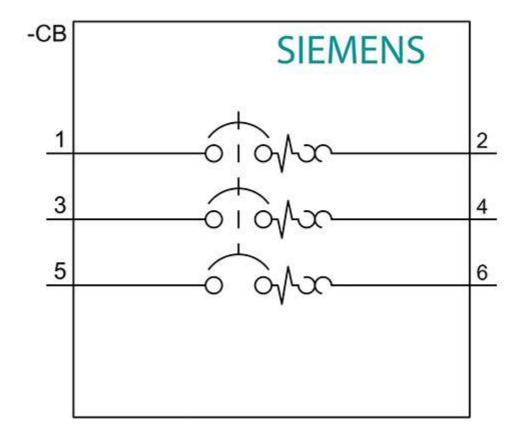












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