3VA5211-6EC31-1AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class H 65kA @ 480V 3-pole, line protection TM230, FTAM, In=110A overload protection Ir=110A 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	HFAM
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	Ш
number of poles	3
General technical data	
power loss [W] / maximum	22.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.53 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	110 A
operational current	
• at 40 °C	110 A
● at 45 °C	110 A
● at 50 °C	110 A
● at 55 °C	105 A
• at 60 °C	102 A
● at 65 °C	99 A
● at 70 °C	96 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	Н
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case

breaking capacity according to UL 489 breaking capacity current • at 240 V • at 480 V • at 650 kA • at 600 V Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Il min. 550 A Adjustable response value current / Il min. 550 A Adjustable response value current / Il min. Adjustable response value current / Il min. Adjustable response value current / Il min. Fround fault protection / tripping switchable / I2t=ON/OFF No Machanical Design height [in] At in Width in] Width 105 mm depth 2.3 in depth 3.3 in depth 105 mm arrangement of electrical connectors / for main current circuit type of electrical connection / for main current circuit Auxiliary circuit number of CO contacts / for auxiliary contacts O Accessories product extension / optional / motor drive Yes		circuit breaker device manual; link to be found under Service & Support
breaking capacity current at 240 V at 480 V at 65 kA at 600 V 25 kA Adjustable parameters Adjustable response value current / Ig min. Adjustable response value current / Ij min. 110 A Adjustable response value current / Ij min. 110 A Adjustable response value current / Ij min. Adjustable response value current / Ii min. 550 A Adjustable response value current / Ii max. 1100 A Ground fault protection / tripping switchable / I2t=ON/OFF No Mochanical Design height [in] 7.3 in Height 185 mm width [in] 4.1 in Width 105 mm depth [in] 3.3 in depth [in] 3.3 in depth [in] 3.3 in Width 105 mm Connections arrangement of electrical connectors / for main current circuit Without connection circuit number of CO contacts / for auxiliary contacts Accessories product extension / optional / motor drive Yes Environmental conditions protection class IP / on the front 100 motor of vice 100 m		
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product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / maximum 20° C Certificates reference code / acc. to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Auxiliary circuit	
product extension / optional / motor drive Environmental conditions protection class IP / on the front ambient temperature • during operation / minimum • during operation / maximum • during storage / minimum • during storage / minimum • during storage / maximum 80 °C Certificates reference code / acc. to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	number of CO contacts / for auxiliary contacts	0
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during storage / minimum during storage / maximum during storage / maximum 80 °C Certificates reference code / acc. to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB Page 140 °C Q Q Yes	during operation / minimum	-25 °C
• during storage / maximum 80 °C Certificates reference code / acc. to IEC 81346-2 certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB VC Ves	 during operation / maximum 	70 °C
reference code / acc. to IEC 81346-2 Q certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	during storage / minimum	-40 °C
reference code / acc. to IEC 81346-2 Q certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	during storage / maximum	80 °C
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Certificates	
combat vessels) / supplement SB	reference code / acc. to IEC 81346-2	Q
General Product Approval EMC	, , , , , , , , , , , , , , , , , , , ,	Yes
	General Product Approval	EMC







Miscellaneous





Shipping Approval

other





Miscellaneous

Further information

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

Industry Mall (Online ordering system)

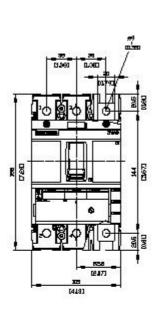
 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5211-6EC31-1AA0}$

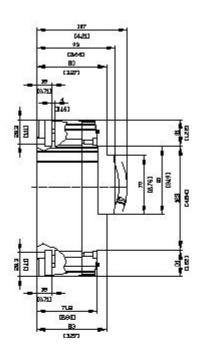
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5211-6EC31-1AA0

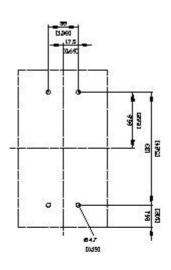
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5211-6EC31-1AA0

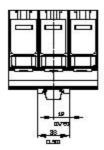
Tender specifications

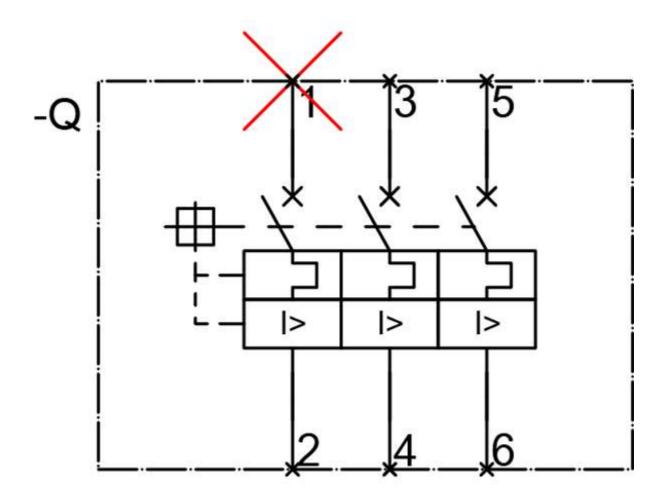
http://www.siemens.com/specifications

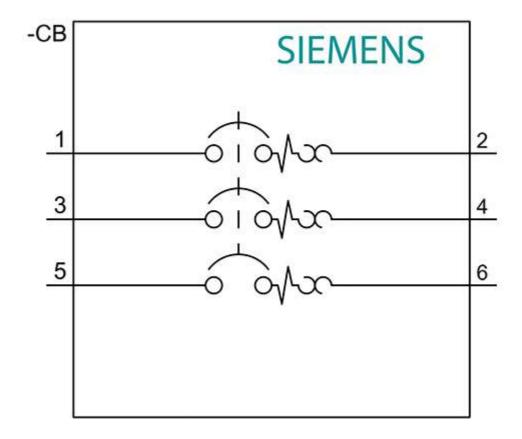












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