3VA5210-5EC31-1AA0

Data sheet



circuit breaker 3VA5 UL frame 250 breaking capacity class M 35kA @ 480 V 3-pole, line protection TM230, FTAM, In=100A overload protection Ir=100A 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	LI	
number of poles	3	
General technical data		
power loss [W] / maximum	31.6 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	10.53 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	100 A	
operational current		
• at 40 °C	100 A	
● at 45 °C	100 A	
• at 50 °C	95 A	
● at 55 °C	96 A	
• at 60 °C	93 A	
• at 65 °C	91 A	
● at 70 °C	88 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	

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	circuit breaker device manual; link to be found under in the last chapter	er Service & Support
Switching capacity according to UL 489		
breaking capacity current		
• at 240 V	85 kA	
● at 480 V	35 kA	
• at 600 V	18 kA	
Adjustable parameters		
Adjustable response value current / lg min.	100 A	
Adjustable response value current / lg min.	100 A	
Adjustable response value current / li min.	500 A	
Adjustable response value current / li max.	1 000 A	
Ground fault protection / tripping switchable / I2t=ON/OFF	No	
Mechanical Design		
height [in]	7.3 in	
Height	185 mm	
width [in]	4.1 in	
Width	105 mm	
depth [in]	3.3 in	
depth	83 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Without connection	
type of electrical connection / for main current circuit	Without	
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	Yes	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
during operation / minimum	-25 °C	
during operation / maximum	70 °C	
during storage / minimum	-40 °C	
during storage / maximum	80 °C	
Certificates		
reference code / acc. to IEC 81346-2	Q	
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	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)

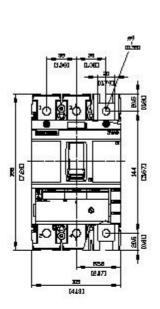
 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5210-5EC31-1AA0}$

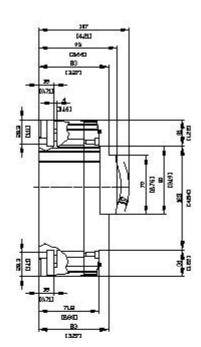
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5210-5EC31-1AA0

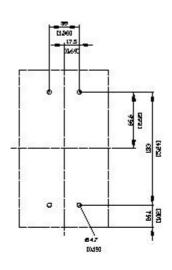
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5210-5EC31-1AA0

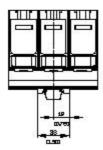
Tender specifications

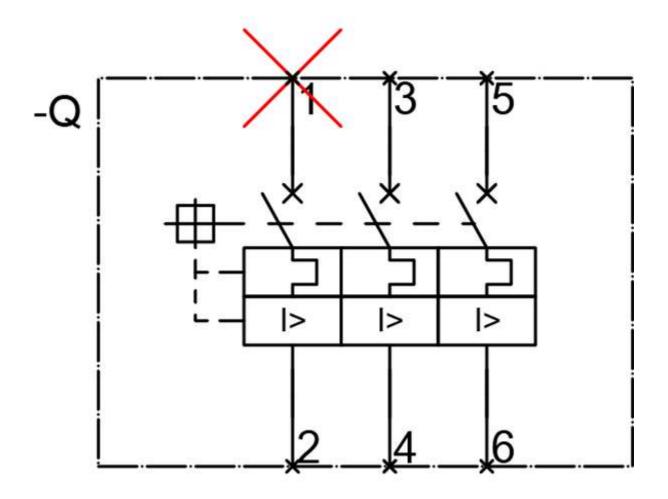
http://www.siemens.com/specifications

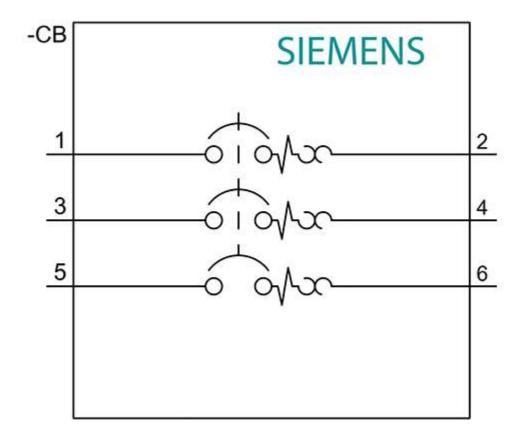












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