SIEMENS

Data sheet

3VA5190-4ED12-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=90A overload protection Ir=90A fixed short-circuit protection Ii=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	SEAS	
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	TM210	
protection function of the overcurrent release	LI	
number of poles	1	
General technical data		
rated insulation voltage Ui	500 V	
Max. rated operational voltage Ue with DC	125 V	
operating voltage / at AC / rated value	415 V	
power loss [W] / maximum	7.13 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	7.13 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	0.407 kg	
Current		
marking / according to UL 489 / 100%-rated breaker	No	
operational current		
• at 40 °C	90 A	
● at 45 °C	88 A	
• at 50 °C	86 A	

at 65 °C <		04.4	
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General Product Approval EMC Marine / Shipping		Q	
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other

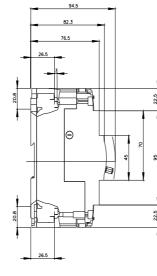
Miscellaneous

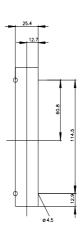
Further information

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=3VA5190-4ED12-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5190-4ED12-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5190-4ED12-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications

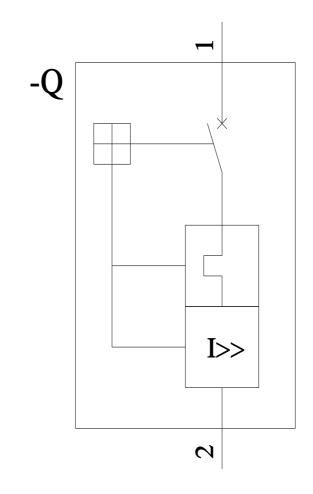
http://www.siemens.com/specifications

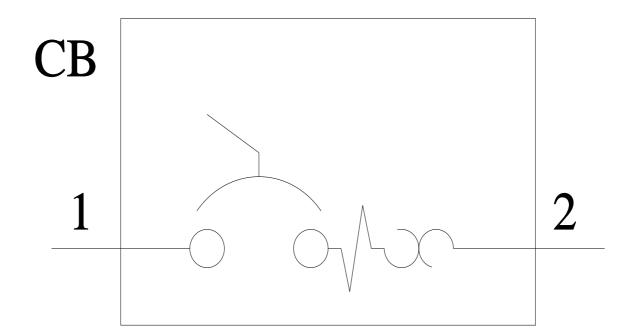












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7/15/2022 🖸

8/2/2022