SIEMENS

Data sheet

3VA5111-4ED12-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=110A overload protection Ir=110A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. nut keeper kit on both sides

Model				
product brand name	SENTRON			
product designation	Molded-case circuit breaker			
product designation / according to UL file	SEAM			
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				
operating voltage / at AC / rated value	415 V			
power loss [W] / maximum	8.6 W			
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	8.6 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	0.404 kg			
Current				
marking / according to UL 489 / 100%-rated breaker	No			
operational current				
● at 40 °C	110 A			
● at 45 °C	107 A			
● at 50 °C	105 A			
● at 55 °C	103 A			
● at 60 °C	100 A			

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• at 65 °C	98 A		
• at 70 °C	96 A		
Switching capacity according to IEC 60947	0		
switching capacity class of the circuit breaker	S	- :- DOtd th	- 0)//
design of short-circuit protection	For switching power values circuit breaker device man in the last chapter		
Switching capacity according to UL 489			
breaking capacity current			
• at 120 V	65 kA		
• at 277 V	25 kA		
● at 347 V	14 kA		
Adjustable parameters			
Adjustable response value current / lg min.	110 A		
Adjustable response value current / lg min.	110 A		
Ground fault protection / tripping switchable / I2t=ON/OFF	No		
Mechanical Design			
height [in]	5.51 in		
Height	140 mm		
width [in]	1 in		
Width	25.4 mm		
depth [in]	3.01 in		
depth	76.5 mm		
Connections			
arrangement of electrical connectors / for main current circuit	Front connection		
type of electrical connection / for main current circuit	nut keeper kit on both ends		
Type of connectable conductor cross-section, connection screw, width x thickness , min.	12 x 1 mm		
Type of connectable conductor cross-section, connection screw, width x thickness , max.	17 x 6.5 mm		
Auxiliary circuit			
product component			
 undervoltage release 	No		
 voltage trigger 	No		
trip indicator	No		
number of CO contacts / for auxiliary contacts	0		
Accessories			
product extension / optional / motor drive	No		
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			
certificate of suitability / as approval for NAVAL (no combat vessels) / supplement SB	Yes		
General Product Approval		EMC	Marine / Shipping











other

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=3VA5111-4ED12-1AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA5111-4ED12-1AA0

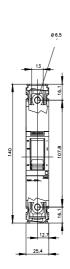
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5111-4ED12-1AA0

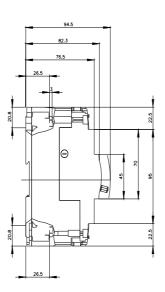
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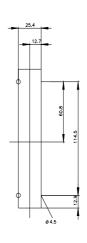
http://www.siemens.com/cax

Tender specifications

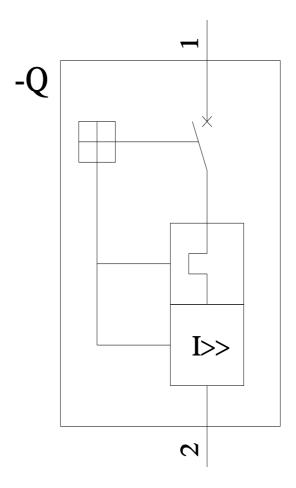
http://www.siemens.com/specifications

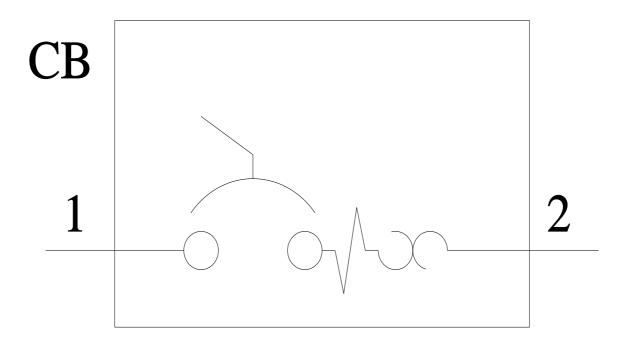












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