SIEMENS

Data sheet

3VA5150-4ED12-1AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 277 V 1-pole, line protection TM210, FTFM, In=50A overload protection Ir=50A 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)	Yes		
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	4 W		
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4 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	50 A		
● at 45 °C	49 A		
● at 50 °C	48 A		
● at 55 °C	47 A		
● at 60 °C	46 A		

● at 65 °C	45 A			
• at 70 °C	45 A 44 A			
Switching capacity according to IEC 60947	44 A			
	S			
switching capacity class of the circuit breaker design of short-circuit protection		s in DC natworks, see th	as 3\/A molded case	
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support 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.	35 A			
Adjustable response value current / lg min.	50 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=3VA5150-4ED12-1AA0

 $Service \& Support \ (Manuals, \ Certificates, \ Characteristics, \ FAQs, ...)$

https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-4ED12-1AA0

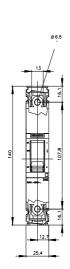
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5150-4ED12-1AA0

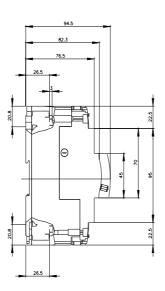
CAx-Online-Generator

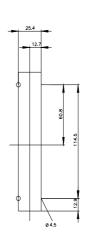
http://www.siemens.com/cax

Tender specifications

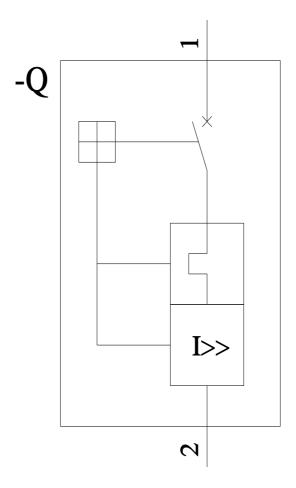
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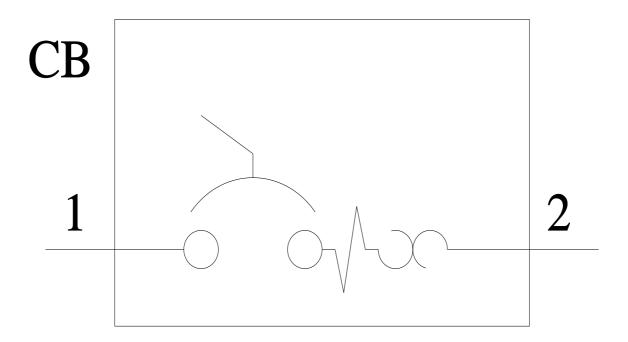












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