SIEMENS

Data sheet

3VA5180-4ED26-1AA0

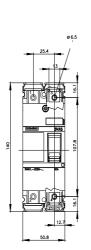


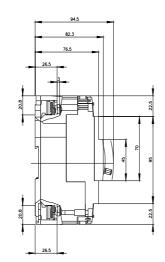
circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480 V 2-pole, line protection TM210, FTFM, In=80A overload protection Ir=80A fixed short-circuit protection Ii=10 x In UL489 SB (naval), 50 deg. cel. cable connection on both sides

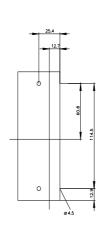
Model					
product brand name	SENTRON				
product designation	Molded-case circuit breaker				
product designation / according to UL file	SEAM				
design of the product	System protection				
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (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	2				
General technical data					
operating voltage / at AC / rated value	415 V				
power loss [W] / maximum	12.86 W				
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	6.43 W				
mechanical service life (operating cycles) / typical	20 000				
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	8 000				
electrical endurance (operating cycles) / at AC-1 / at 690 V	4 000				
electrical endurance (operating cycles) / at 480 V	8 000				
electrical endurance (operating cycles) / at 600 V	4 000				
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No				
ground-fault monitoring version	without				
product function					
communication function	No				
other measurement function	No				
Net Weight	0.668 kg				
Current					
marking / according to UL 489 / 100%-rated breaker	No				
operational current					
● at 40 °C	80 A				
● at 45 °C	78 A				
● at 50 °C	77 A				
● at 55 °C	76 A				
● at 60 °C	74 A				
● at 65 °C	73 A				
● at 70 °C	72 A				

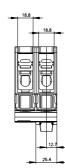
Switching capacity according to IEC 60947			
switching capacity class of the circuit breaker	S		
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter		
Switching capacity according to UL 489	· ·		
current breaking capacity			
• at 240 V	65 kA		
• at 480 V	25 kA		
• at 600 Y/347 V	14 kA		
Adjustable parameters			
adjustable response value setting current (Ir) / of the L-trip / with			
l2t characteristic			
• minimum	80 A		
• maximum	80 A		
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic			
• minimum	1 s		
• maximum	1 s		
adjustable response value setting current (li) / for I-tripping			
• minimum	800 A		
• maximum	800 A		
adjustable absolute value setting current (InN) / for N-tripping			
• minimum	0 A		
• maximum	0 A		
adjustable current response value current / of the current- dependent overload release	80 80 A		
product function / grounding protection	No		
Mechanical Design			
product component			
undervoltage release	No		
voltage trigger	No		
trip indicator	No		
height [in]	5.51 in		
height	140 mm		
width [in]	2 in		
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (8 AWG - 3/0)		
width	50.8 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	circular conductor terminal on both sides		
Auxiliary circuit			
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		
	80 °C		
 during storage / maximum 			
Guring storage / maximum Certificates			
	Yes		

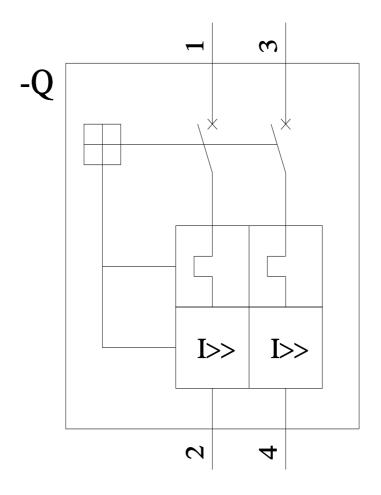
	<u>Confirmation</u>		(UL) UL	VDE	<u>Miscellaneous</u>	
General Product Approval	EMC	Declaration of Conformity		Test Certificates	Marine / Shipping	
EHC	RCM	C C EG-Konf.	UK CA	Type Test Certific- ates/Test Report	ABS	
Marine / Shipping				other		
BUREAU VERITAS		Lloyd's Register urs	KMRS	<u>Miscellaneous</u>	<u>Confirmation</u>	
Further information Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/lowoltage/catalogs Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA5180-4ED26-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,) http://www.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5180-4ED26-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) http://www.siemens.com/cax Tender specifications http://www.siemens.com/cax						

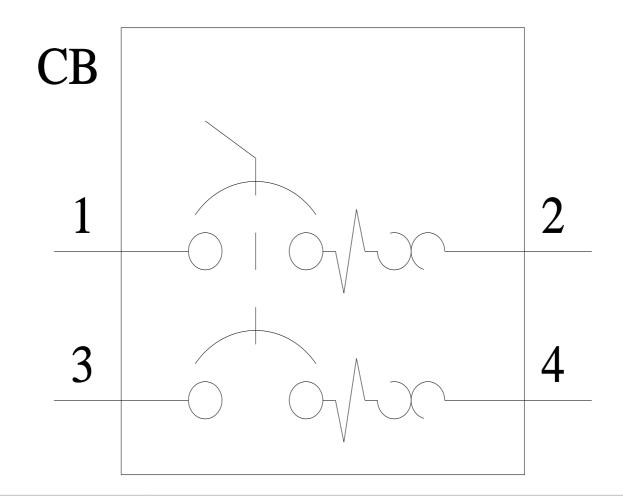












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