SIEMENS

Data sheet



circuit breaker 3VA4 UL frame 125 breaking capacity class S 25kA @ 480 V 3-pole, line protection TM210, FTFM, In=80A overload protection Ir=80A fixed short-circuit protection Ii=10 x In clamp connection

Model			
product brand name	SENTRON		
product designation	Molded-case circuit breaker		
product designation / according to UL file	SEAB		
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	Ц		
number of poles	3		
General technical data			
operating voltage / at AC / rated value	690 V		
power loss [W] / maximum	16.5 W		
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	5.5 W		
mechanical service life (operating cycles) / typical	15 000		
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	0.743 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	75 A		
• at 60 °C	74 A		
• at 65 °C	72 A		
● at 70 °C	70 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 Y/277 V	25 kA			
● at 480 V	25 kA			
● at 600 Y/347 V	14 kA			
Adjustable parameters				
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic				
• minimum	1 s			
maximum	1 s			
product function / grounding protection	No			
Mechanical Design				
product component				
undervoltage release	No			
 voltage trigger 	No			
trip indicator	No			
height [in]	5.09 in			
height	129.4 mm			
width [in]	3 in			
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (8 AWG - 3/0)			
width	76.2 mm			
depth [in]	2.96 in			
depth	75.1 mm			
Connections				
arrangement of electrical connectors / for main current circuit	output side: circular conductor	connection		
type of electrical connection / for main current circuit	Infeed side: Low tab			
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6) $$	Tin			
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			
during storage / maximum	80 °C			
Approvals / Certificates				
General Product Approval		EMC	other	





Miscellaneous





Miscellaneous

other

<u>Confirmation</u> <u>Miscellaneous</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/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA4180-4ED34-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA4180-4ED34-0AA0

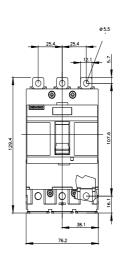
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4180-4ED34-0AA0

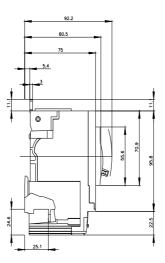
CAx-Online-Generator

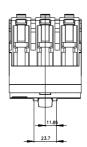
http://www.siemens.com/cax

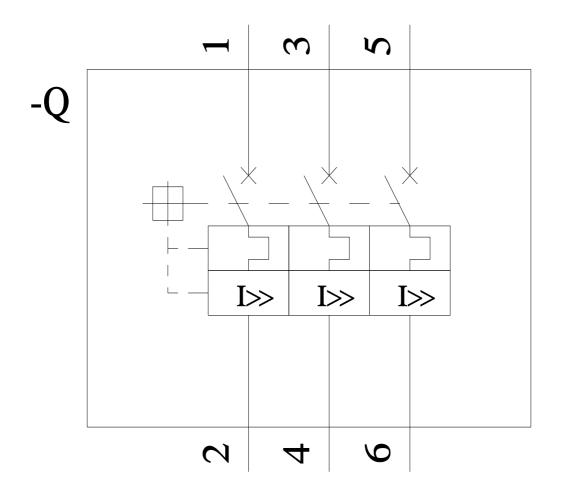
Tender specifications

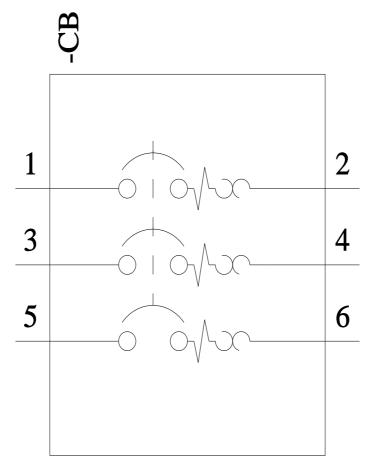
http://www.siemens.com/specifications











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