3VA4180-5ED14-3AA0

Data sheet



circuit breaker 3VA4 UL Frame 125 breaking capacity class M 35 kA @ 277 V 1-pole, line protection TM210, FTFM, In=80 A overload protection Ir=80 A permanently set short-circuit protection Ii=10 x In

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	MEAB
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	1
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	5.5 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	0.28 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	M
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 120 V		85 kA
• at 277 V		35 kA
● at 347 V		18 kA
Adjustable parameters		
adjustable response value delay time (tr) / for L-tr characteristic	ripping / with I2t	
• 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]		1 in
type of connectable conductor cross-sections / of conductor terminal / stranded	the round	1 x (8 AWG - 3/0)
width		25.4 mm
depth [in]		2.96 in
depth		75.1 mm
Connections		
arrangement of electrical connectors / for main cu	urrent 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	EMV	other

Miscellaneous





Confirmation

Miscellaneous

Miscellaneous

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=3VA4180-5ED14-3AA0

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

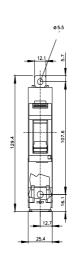
https://support.industry.siemens.com/cs/ww/en/ps/3VA4180-5ED14-3AA0

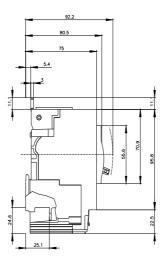
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3VA4180-5ED14-3AA0

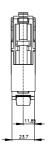
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications







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