3VA4120-4ED14-3AA0

Data sheet



circuit breaker 3VA4 UL Frame 125 breaking capacity class S 25 kA @ 277 V 1-pole, line protection TM210, FTFM, In=20 A overload protection Ir=20 A permanently set short-circuit protection Ii=15 x In

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)	Yes
design of the load switch / according to UL 489 / Switching Duty circuit breaker (SWD Type)	Yes
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	2.8 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	2.8 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	20 A
• at 45 °C	20 A
• at 50 °C	19 A
• at 55 °C	19 A
• at 60 °C	18 A
• at 65 °C	18 A
• at 70 °C	17 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

Switching capacity according to UL 489 current breaking capacity • at 120 V • at 277 V • at 347 V Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with I2t characteristic • minimum	65 kA 25 kA 14 kA 1 s 1 s No
 at 120 V at 277 V at 347 V Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with l2t characteristic 	25 kA 14 kA 1s
 at 277 V at 347 V Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with I2t characteristic 	25 kA 14 kA 1s
at 347 V Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	14 kA 1 s 1 s
Adjustable parameters adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	1s 1s
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	1 s
characteristic	1 s
• minimum	1 s
maximum	No
product function / grounding protection	
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 the round conductor terminal / stranded	1 x (14 AWG - 8 AWG)
width	25.4 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 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=3VA4120-4ED14-3AA0

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

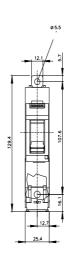
https://support.industry.siemens.com/cs/ww/en/ps/3VA4120-4ED14-3AA0

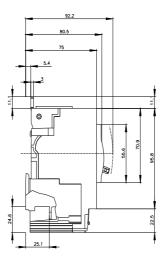
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3VA4120-4ED14-3AA0

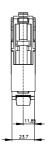
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications







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