3VA4120-5ED24-3AA0

Data sheet



circuit breaker 3VA4 UL Frame 125 breaking capacity class M 35 kA @ 480 V 2-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	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)	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	2
General technical data	
operating voltage / at AC / rated value	415 V
power loss [W] / maximum	5.6 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	0.514 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	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 240 V		85 kA
• at 480 Y/277 V		35 kA
• at 480 V		35 kA
• at 600 Y/347 V		18 kA
Adjustable parameters		
adjustable response value delay time (tr) / for L-trip characteristic	pping / 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]		2 in
type of connectable conductor cross-sections / of to conductor terminal / stranded	ne round	1 x (14 AWG - 8 AWG)
width		50.8 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

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Further information

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=3VA4120-5ED24-3AA0

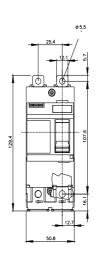
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3VA4120-5ED24-3AA0

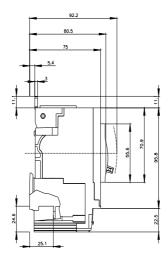
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

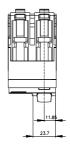
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA4120-5ED24-3AA0

CAx-Online-Generator

http://www.siemens.com/cax







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