SIEMENS

Data sheet

3VA5150-1MU32-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=50A without overload protection short-circuit protection li=3...7 x In nut keeper kit on both sides

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HEAP
Product version	Starter 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	TM120M
protection function of the overcurrent release	1
number of poles	3
General technical data	
rated insulation voltage Ui	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	7.7 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	2.57 W
mechanical service life (switching cycles) / typical	20 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz	4 000
electrical endurance (switching cycles) / at 480 V	8 000
electrical endurance (switching cycles) / at 600 V	4 000
Neutral conductors / upgradeable/retrofittable	No
ground-fault monitoring version	without
product function	
 communication function 	No
 phase failure detection 	No
other measurement function	No
Net Weight	1.034 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	50 A
● at 45 °C	50 A
● at 50 °C	50 A

• at 55 °C		50 A		
● at 60 °C	5	50 A		
● at 65 °C	5	50 A		
● at 70 °C	5	50 A		
Switching capacity according to IEC 60947				
breaking capacity maximum short-circuit curr	ent (Icu)			
• at 240 V	1	150 kA		
● at 415 V	7	70 kA		
● at 690 V	1	10 kA		
breaking capacity operating short-circuit curr	ent (lcs)			
• at 240 V	. ,	150 kA		
• at 415 V		70 kA		
• at 690 V		5 kA		
short-circuit current making capacity (Icm)				
• at 240 V	9	330 kA		
• at 215 V		154 kA		
• at 690 V		17 kA 		
design of short-circuit protection	C	circuit breaker device manua	in DC networks, see the 3VA molded case al; link to be found under Service & Support	
Adjustable povemetere		n the last chapter		
Adjustable parameters				
Ground fault protection / tripping switchable /	12t=ON/OFF	No		
Mechanical Design				
height [in]		5.51 in		
Height		140 mm		
width [in]	3	3 in		
Width	7	76.2 mm		
depth [in]	3	3.01 in		
depth	7	76.5 mm		
Connections				
arrangement of electrical connectors / for ma circuit	in current F	Front connection		
type of electrical connection / for main current	t circuit r	nut keeper kit on both ends		
Type of connectable conductor cross-section screw, width x thickness , min.	, connection 1	12 x 1 mm		
Type of connectable conductor cross-section screw, width x thickness , max.	, connection 1	17 x 6.5 mm		
Auxiliary circuit				
product component				
	ĸ			
undervoltage release		No		
voltage trigger		No		
• trip indicator		No		
number of CO contacts / for auxiliary contact	s C)		
Accessories				
product extension / optional / motor drive	١	ſes		
Environmental conditions				
protection class IP / on the front		P40		
ambient temperature				
 during operation / minimum 	-	-25 °C		
 during operation / maximum 	7	70 °C		
 during storage / minimum 	-	-40 °C		
 during storage / maximum 	8	30 °C		
Certificates				
reference code / according to IEC 81346-2	(2		
certificate of suitability / as approval for NAV/ combat vessels) / supplement SB		ſes		
General Product Approval	EMC	Marine / Shipping	other	
ethoral i roudet approval	2	indiffic / onipping		







Miscellaneous

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=3VA5150-1MU32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-1MU32-0AA0

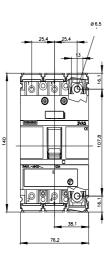
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5150-1MU32-0AA0

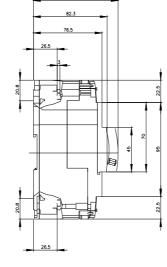
CAx-Online-Generator

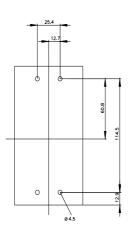
http://www.siemens.com/cax

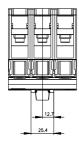
Tender specifications

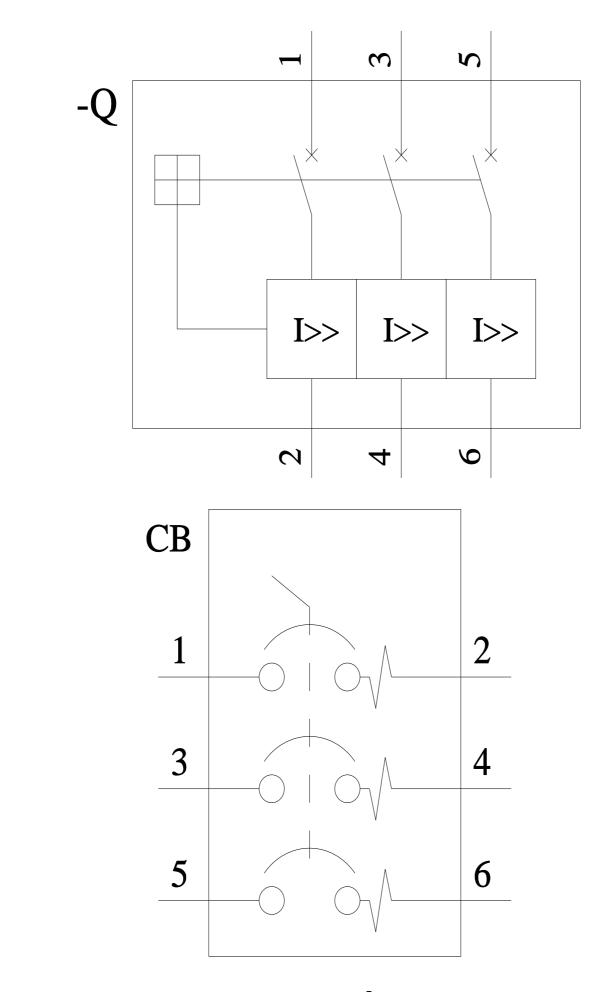
http://www.siemens.com/specifications











last modified:

7/15/2022 🖸

Subject to change without notice © Copyright Siemens