SIEMENS

Data sheet

3VA5180-1MU32-0AA0



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=80A 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	14.2 W	
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	4.73 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	80 A	
● at 45 °C	80 A	
• at 50 °C	80 A	

● at 55 °C		80 A
● at 60 °C	8	80 A
● at 65 °C	8	80 A
● at 70 °C	8	80 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 curre	ent (Ics)	
• at 240 V	1	150 kA
● at 415 V	7	70 kA
• at 690 V	5	5 kA
short-circuit current making capacity (lcm)		
• at 240 V	3	330 kA
● at 415 V	1	154 kA
● at 690 V	1	17 kA
design of short-circuit protection	С	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
Adjustable parameters		
Ground fault protection / tripping switchable /	I2t=ON/OFF	No
Mechanical Design		
height [in]	5	5.51 in
Height	1	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 curren	t circuit n	nut keeper kit on both ends
Type of connectable conductor cross-section screw, width x thickness , min.		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		
undervoltage release	N	No
voltage trigger	N	No
• trip indicator	N	No
number of CO contacts / for auxiliary contacts	s 0	0
Accessories		
product extension / optional / motor drive	Y	Yes
Environmental conditions		
protection class IP / on the front	IF	IP40
ambient temperature		
 during operation / minimum 	-2	-25 °C
during operation / maximum		70 °C
during sporatory maximum during storage / minimum		-40 °C
during storage / maximum		80 °C
Certificates		
reference code / according to IEC 81346-2 Q		Q
certificate of suitability / as approval for NAVA combat vessels) / supplement SB		Yes
General Product Approval	EMC	Marine / Shipping other







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=3VA5180-1MU32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5180-1MU32-0AA0

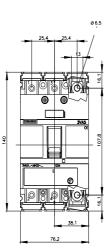
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5180-1MU32-0AA0

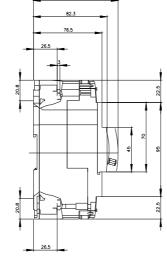
CAx-Online-Generator

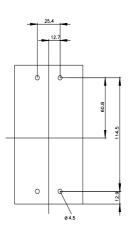
http://www.siemens.com/cax

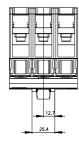
Tender specifications

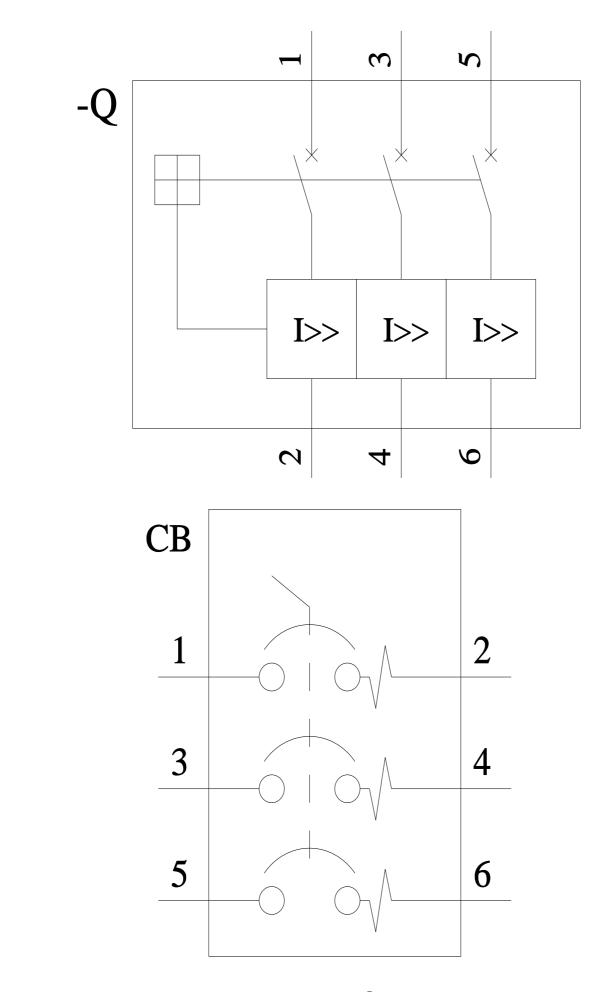
http://www.siemens.com/specifications











last modified:

7/15/2022 🖸

Subject to change without notice © Copyright Siemens