3VA5150-1MH32-0AA0

Data sheet



circuit breaker 3VA5 UL frame 125 3-pole, starter protection TM120M, AM, In=50A without overload protection short-circuit protection li=5...12 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	I
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	5.6 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	1.87 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	50 A
● at 65 °C	50 A
● at 70 °C	50 A
Switching capacity according to IEC 60947	
breaking capacity maximum short-circuit current (Icu)	
• at 240 V	150 kA
• at 415 V	70 kA
● at 690 V	10 kA
breaking capacity operating short-circuit current (lcs)	
• at 240 V	150 kA
• at 415 V	70 kA
• at 690 V	5 kA
short-circuit current making capacity (lcm)	
• at 240 V	330 kA
• at 415 V	154 kA
• at 690 V	17 kA
design of short-circuit protection	For switching power values in DC networks, see the 3VA molded case
design of short-circuit protection	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]	5.51 in
Height	140 mm
width [in]	3 in
Width	76.2 mm
depth [in]	3.01 in
depth	76.5 mm
Connections	
arrangement of electrical connectors / for main current	Front connection
circuit	Tront connection
type of electrical connection / for main current circuit	nut keeper kit on both ends
Type of connectable conductor cross-section, connection	12 x 1 mm
screw, width x thickness , min.	
Type of connectable conductor cross-section, connection	17 x 6.5 mm
screw, width x thickness, max.	
Auxiliary circuit	
product component	
 undervoltage release 	No
 voltage trigger 	No
● trip indicator	No
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
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
Certificates	
reference code / according to IEC 81346-2	Q
certificate of suitability / as approval for NAVAL (no	Yes
combat vessels) / supplement SB	
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=3VA5150-1MH32-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA5150-1MH32-0AA0

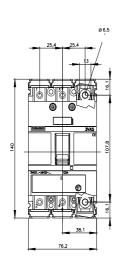
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA5150-1MH32-0AA0

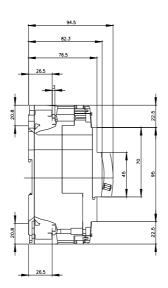
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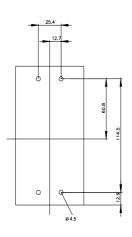
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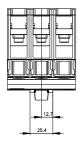
Tender specifications

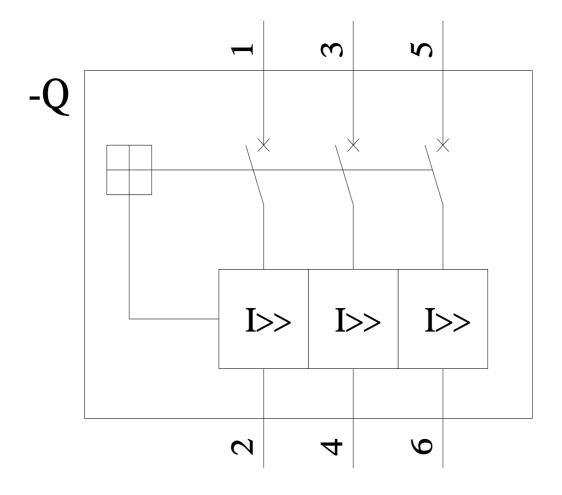
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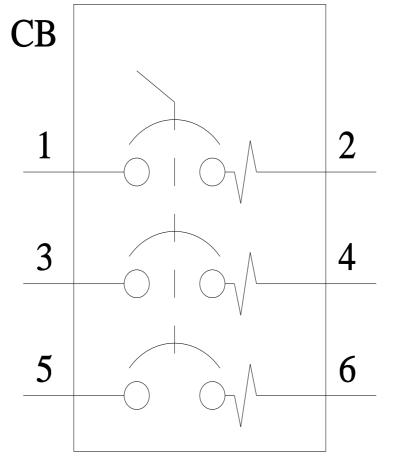












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