SIEMENS

Data sheet

3VA5440-0MH36-0AA0



CIRCUIT BREAKER 3VA5 UL Frame 600 3POLE,MOTOR STARTER PROTECTION TM120M, AM, In=400A WITHOUT OVERLOAD PROTECTION SHORT CIRCUIT PROTECTION Ii=6...12 x In ALLUG LINE AND LOAD SIDE

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	HLAP
design of the product	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	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	120 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	40 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	2 700
electrical endurance (operating cycles) / at 480 V	4 000
electrical endurance (operating cycles) / at 600 V	2 700
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
product function	
 communication function 	No
 phase failure detection 	No
 other measurement function 	No
Net Weight	5.896 kg
Current	
marking / according to UL 489 / 100%-rated breaker	No
operational current	
• at 40 °C	400 A
• at 45 °C	400 A
● at 50 °C	400 A
● at 55 °C	600 A
• at 60 °C	400 A
● at 65 °C	400 A
● at 70 °C	400 A

Switching capacity according to IEC 60947	
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	10 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	220 kA
• at 415 V	154 kA
• at 690 V	17 kA
Adjustable parameters	
adjustable response value setting current (li) / for l-tripping	
	2 400 A
• minimum	
• maximum	4 800 A
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
product function / grounding protection	No
Mechanical Design	
product component	
 undervoltage release 	No
 voltage trigger 	No
trip indicator	No
height [in]	9.76 in
height	248 mm
width [in]	5.43 in
type of connectable conductor cross-sections / of the round conductor terminal / stranded	1 x (1 AWG - 600 kcmil)
width	138 mm
depth [in]	4.33 in
depth	110 mm
Connections	
arrangement of electrical connectors / for main current circuit	Front connection
type of electrical connection / for main current circuit	circular conductor terminal on both sides
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
Accessories	
product extension / optional / motor drive	Yes
Environmental conditions	1 65
protection class IP / on the front	IP40
ambient temperature	05.40
during operation / minimum	-25 °C
 during operation / maximum 	70 °C
during storage / minimum	-40 °C
during storage / maximum	80 °C
reference code / according to IEC 81346-2	Q
Approvals / Certificates	
General Product Approval	
	Miscellaneous
CCC UL	UL VDE
General Product Ap- proval EMV Marine / Shipp	ing other
proval	

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Miscellaneous

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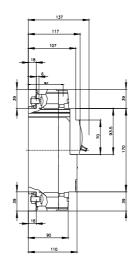
Environment

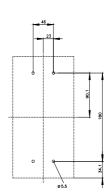
Environmental Confirmations

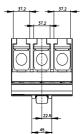
Further information

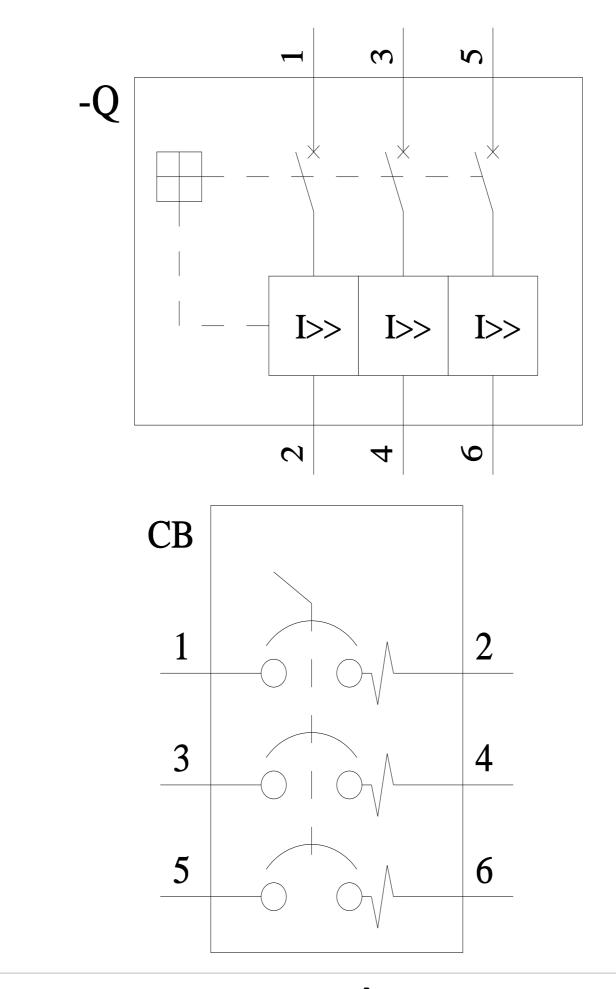
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Tender specifications http://www.siemens.com/specifications









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