

CIRCUIT BREAKER 3VA1 IEC FRAME 250 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 3-POLE, MOTOR STARTER PROT. TM120M, AM, IN=200A WITHOUT OVERLOAD PROTECTION SHORT CIRCUIT PROTECTION II=6...14 X IN BUSBAR CONNECTION 1 AUXILIARY SWITCH HP 1 TRIP ALARM SWITCH HP



Model	
product brandname	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Starter protection
Design of the overcurrent release	TM120M
Protective function of the overcurrent release	I
Number of poles	3
Design of the auxiliary release	Shunt trip (STL)
Design of the auxiliary switch	2 auxiliary switches HQ
General technical data	
Tension assignée d'isolement Ui	800 V
Max. rated operational voltage Ue with AC 50/60Hz	690 V
Max. rated operational voltage Ue with DC	500 V
Operating power / at AC-3 / at 400 V	75 W
Operating power / at AC-3 / at 230 V	0 W
Mechanical service life (switching cycles) / typical	15 000
Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz	8 000
Neutral conductors / upgradeable/retrofitable	No

Ground fault monitoring version	Without
Product function	
• communication function	No
• Phase failure detection	No
• other measurement function	No
Net weight	2.06 kg

### Electricity

Max. rated operational voltage of the size of the circuit-breaker	250 A
Courant permanent assigné lu	200 A
Operating current	
• at 40 °C	200 A
• at 45 °C	200 A
• at 50 °C	200 A
• at 55 °C	192 A
• at 60 °C	188 A
• at 65 °C	184 A
• at 70 °C	180 A

### Switching capacity according to IEC 60947

Switching capacity class of the circuit breaker	H
Maximum short-circuit current breaking capacity (Icu)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 440 V	36 kA
• at 690 V	10 kA
Operational short-circuit current breaking capacity (Ics)	
• at 240 V	100 kA
• at 415 V	70 kA
• at 440 V	36 kA
• at 690 V	5 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 current / I <sub>g</sub> min.	0 A
Adjustable response value current / I <sub>g</sub> min.	0 A
Adjustable response value current / I <sub>g</sub> min.	0 A
Adjustable response value current / I <sub>g</sub> min.	0 A
Adjustable response value current / I <sub>i</sub> min.	0 A

Adjustable response value current / li max.	0 A
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### Mechanical Design

Height	158 mm
Width	105 mm
Depth	70 mm

### Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	lug terminal

### Auxiliary circuit

Product component	
<ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• Voltage trigger</li> <li>• undervoltage release with leading contact</li> <li>• Trip indicator</li> </ul>	<ul style="list-style-type: none"> <li>No</li> <li>Yes</li> <li>No</li> <li>No</li> </ul>
Number of CO contacts / for auxiliary contacts	2

### Accessories

Product extension / optional / motor drive	Yes
Manufacturer's article number	
<ul style="list-style-type: none"> <li>• of the supplied basic switch</li> <li>• of the integrated auxiliary switch/alarm switch</li> <li>• of the integrated auxiliary trip</li> </ul>	<ul style="list-style-type: none"> <li><a href="#">3VA1220-6MH32-0AA0</a></li> <li><a href="#">3VA9988-0AA12</a></li> <li>3VA9688-0BL33</li> </ul>

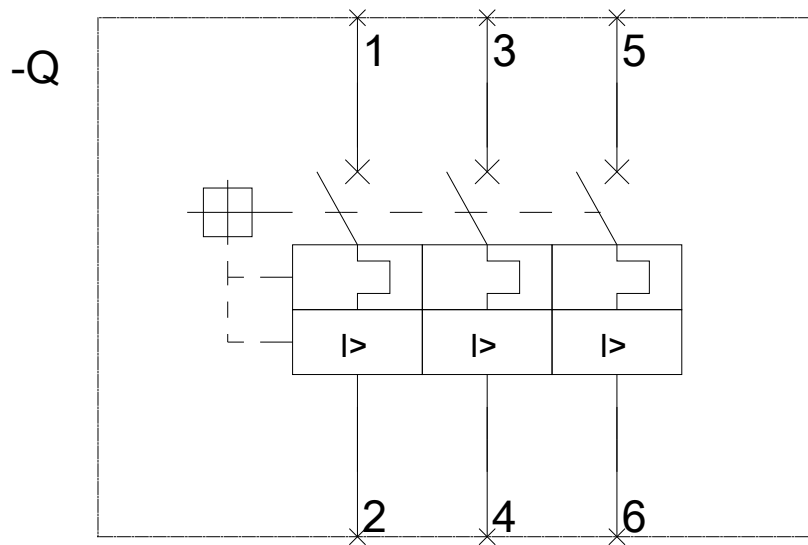
### Environmental conditions

Protection class IP / on the front	IP40
Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation / minimum</li> <li>• during operation / maximum</li> <li>• during storage / minimum</li> <li>• during storage / maximum</li> </ul>	<ul style="list-style-type: none"> <li>-25 °C</li> <li>70 °C</li> <li>-40 °C</li> <li>80 °C</li> </ul>

### Certificates

Equipment marking / acc. to DIN EN 81346-2	Q
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last modified:

10/24/2016