

CIRCUIT BREAKER 3VA1 IEC FRAME 250 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=250A OVERLOAD PROTECTION IR=175A ...250A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 100% BUSBAR CONNECTION



Model	
Product brand name	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Design of the overcurrent release	TM240
Protective function of the overcurrent release	LI
Number of poles	4
General technical data	
Tension assignée d'isolement $U_i$	800 V
Max. rated operational voltage $U_e$ with AC 50/60Hz	690 V
Max. rated operational voltage $U_e$ with DC	600 V
Active power loss / for rated value of the current / at AC / in hot operating state / per device	57 W
Active power loss / for rated value of the current / at AC / in hot operating state / per pole	19 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
• other measurement function	No
Net weight	2.116 kg

### Electricity

Max. rated operational voltage of the size of the circuit-breaker	250 A
Courant permanent assigné lu	250 A
Operating current	
• at 40 °C	250 A
• at 45 °C	250 A
• at 50 °C	250 A
• at 55 °C	243.3 A
• at 60 °C	236.5 A
• at 65 °C	229.8 A
• at 70 °C	223 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 440 V	76 kA
• at 690 V	17 kA

### Adjustable parameters

Adjustable response value current / I <sub>g</sub> min.	175 A
Adjustable response value current / I <sub>g</sub> min.	250 A
Short-term delayed / tripping switchable / I <sub>2t</sub> =ON/OFF	No
Adjustable response value current / I <sub>i</sub> min.	1 250 A

Adjustable response value current / li max.	2 500 A
Ground fault protection / tripping switchable / I2t=ON/OFF	No

### Mechanical Design

Height [in]	6.2 in
Height	158 mm
Width [in]	5.5 in
Width	140 mm
Depth [in]	2.8 in
Depth	70 mm

### Connections

Arrangement of electrical connectors / for main current circuit	Front terminal
Type of electrical connection / for main current circuit	lug terminal
Type of connectable conductor cross-section, connection screw, width x thickness , min.	13 x 1
Type of connectable conductor cross-section, connection screw, width x thickness , max.	25 x 8

### Auxiliary circuit

Number of CO contacts / for auxiliary contacts	0
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### Accessories






Product extension / optional / motor drive	Yes
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### 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

Equipment marking / acc. to DIN EN 81346-2	Q
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General Product Approval			EMC	Declaration of Conformity	Test Certificates
 CCC	 VDE		 RCM	 EG-Konf.	<a href="#">Type Test Certificates/Test Report</a>

Test Certificates		Shipping Approval			
<a href="#">Miscellaneous</a>	<a href="#">Special Test Certificate</a>	 ABS	 BUREAU VERITAS	 GL	 LRS

Shipping Approval	other
 RMRS	<a href="#">Miscellaneous</a>

#### Further information

##### 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=3VA1225-6GF42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA1225-6GF42-0AA0>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

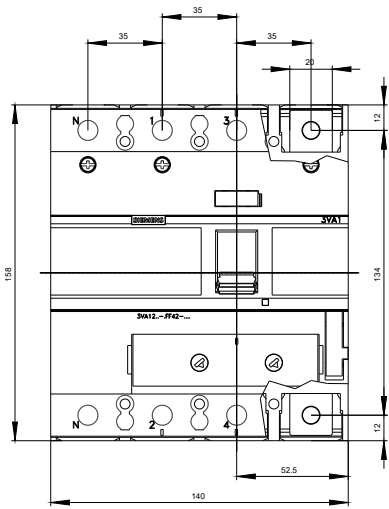
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3VA1225-6GF42-0AA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA1225-6GF42-0AA0)

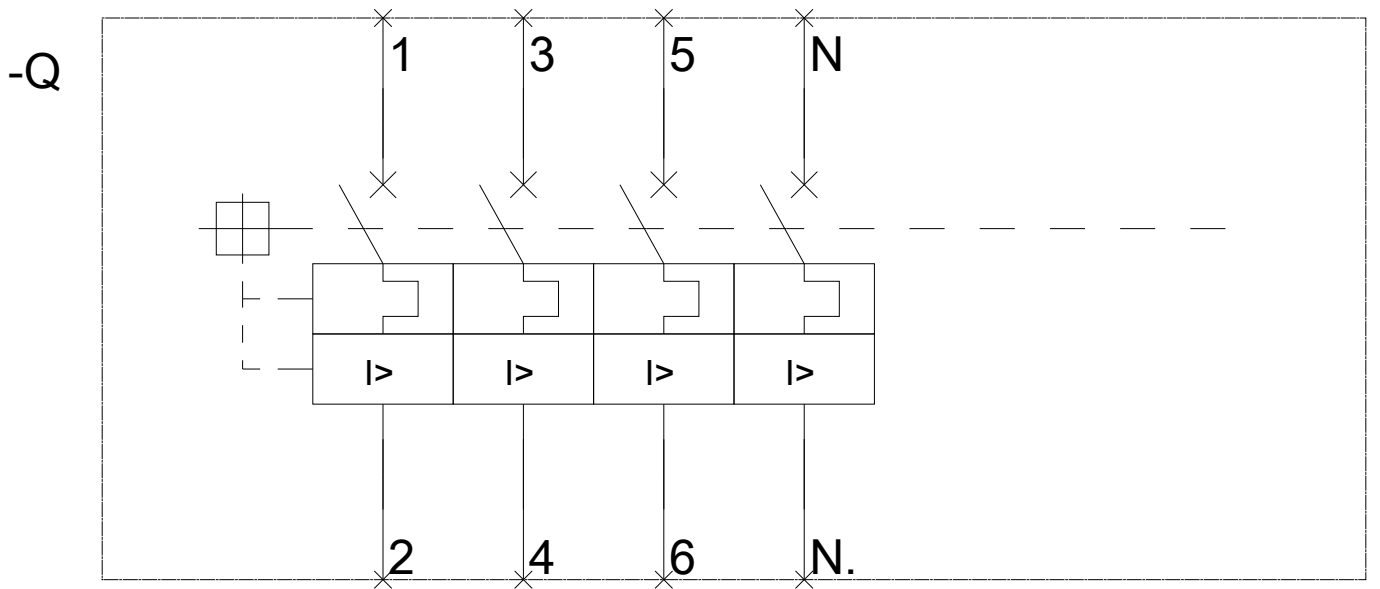
##### CAX-Online-Generator

<http://www.siemens.com/cax>

##### Tender specifications

<http://www.siemens.com/specifications>





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