SIEMENS

Data sheet

3VA1110-6FF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=100A OVERLOAD PROTECTION IR=70A ...100A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL PROTECTION 50% BUSBAR CONNECTION

Figure similar

Model	
product brand name	SENTRON
Product designation	Molded case circuit breaker
Design of the product	Line protection
Product variations	General Applications
Ground fault monitoring version	Without
Design of the auxiliary release	Without auxiliary release
Design of the auxiliary switch	Without
Design of the operating mechanism	toggle handle
Type of the driving mechanism / motor drive	No
Design of the overcurrent release	TM240

General technical data	
Number of poles	4
Trip class / of the L-trip / with I2t characteristic / initial value	1
Trip class / of the L-trip / with I2t characteristic / Full-scale value	1
Electrical endurance (switching cycles)	
• at AC-1 / at 380/415 V / at 50/60 Hz	8 000
circuit-breaker / Design	3VA
Mechanical service life (switching cycles) / typical	15 000

Voltage		
Insulation voltage / Rated value	V	800

Protection class

Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		Ц
Switching capacity		
Switching capacity class of the circuit breaker		Н
Dissipation		
Active power loss		
• maximum	W	25
Electricity		
Continuous current / Rated value / maximum	А	160
Continuous current / Rated value	Α	100
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	Α	1
• of the instantaneous short-circuit release / initial value	Α	5
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	٧	690
• for DC / Rated value	٧	600
Operating current		
• at 40 °C / Rated value	Α	100
• at 50 °C / Rated value	Α	100
• at 55 °C / Rated value	Α	98
• at 60 °C / Rated value	Α	96
• at 65 °C / Rated value	Α	94
• at 70 °C / Rated value	Α	91
Auxiliary circuit		
Number of CO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	Α	10
• for N-conductor protection / initial value	Α	0.5
• for N-conductor protection / Full-scale value	Α	0.5
Adjustable response value current / of the current- dependent overload release / initial value	Α	0.7
Product details		
Product component		
i roduot component		

	No
	No
	No
	No
	No
	No
	Yes
	Yes
	No No
	No
	No
	3VA1110-6FF42-0AA0
kA	100
kA	100 70
kA	70
kA kA	70 36
kA kA kA	70 36 15
kA kA kA	70 36 15
kA kA kA kA	70 36 15 5
kA kA kA kA	70 36 15 5
kA kA kA kA	70 36 15 5 100 70
kA kA kA kA kA	70 36 15 5 100 70 36
kA kA kA kA kA kA	70 36 15 5 100 70 36 20
kA kA kA kA kA kA	70 36 15 5 100 70 36 20
kA kA kA kA kA kA kA	70 36 15 5 100 70 36 20
kA kA kA kA kA kA kA	70 36 15 5 100 70 36 20 10
kA kA kA kA kA kA kA kA kA	70 36 15 5 100 70 36 20 10 220 154
kA kA kA kA kA kA kA kA kA	70 36 15 5 100 70 36 20 10 220 154
kA kA kA kA kA kA kA kA kA	70 36 15 5 100 70 36 20 10 220 154 17

• for flat-bar terminal connection / minimum	12 x 0
• for flat-bar terminal connection / maximum	17 x 6.5
Type of electrical connection / for main current circuit	Lug terminal

Mechanical Design		
Height	mm	130
Width	mm	101.6
Depth	mm	70
Mounting type		fixed mounting

Environmental conditions			
Ambient temperature			
during operation / minimum	°C	-25	
during operation / maximum	°C	70	
during storage / minimum	°C	-40	
during storage / maximum	°C	80	

Certificates

Equipment marking

Q • acc. to DIN EN 61346-2 Q • acc. to DIN EN 81346-2

General Product Approval	EMC	Declaration of	Shipping Approval
		Conformity	





other







other

other

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11106FF420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11106FF420AA0/all

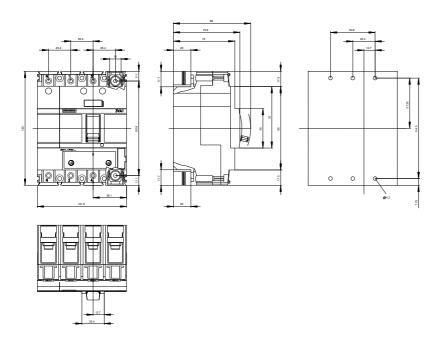
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11106FF420AA0

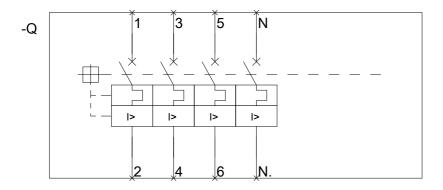
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





last modified: 11.03.2015