SIEMENS

Datasheet

3VA1110-5FD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=100A OVERLOAD PROTECTION IR=100A FIXED SHORT CIRCUIT PROTECTION II=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		TM210
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		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		M
	_	
Dissipation	_	
Active power loss	W	25
• maximum	vv	25
Electricity		
Operating current / at 45 °C / Rated value	А	100
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	100
Adjustable response value current		
 of the current-dependent overload release / 	А	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	10
value		
Net weight	g	1 200
Main circuit		
Operating voltage		
 with AC / at 50/60 Hz / Rated value 	V	690
 for DC / Rated value 	V	600
Operating current		
● at 40 °C / Rated value	А	100
• at 50 °C / Rated value	А	100
• at 55 °C / Rated value	А	98
● at 60 °C / Rated value	А	96
● at 65 °C / Rated value	А	94
• at 70 °C / Rated value	А	91
Auxiliary circuit		
Number of CO contacts		
 for auxiliary contacts 		0
Constant little	_	
Suitability Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
• of I-trip / Full-scale value	A	10
 for N-conductor protection / initial value 	A	0.5
 for N-conductor protection / Full-scale value 	А	0.5

Adjustable response value current / of the current-	А	1
dependent overload release / initial value		
Appearance		
Product details		
Product component		
Trip indicator		No
• display		No
Voltage trigger		No
undervoltage release		No
 undervoltage release with leading contact 		No
Product property	_	
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		No
Product expansion	-	
• optional		
— motor drive		Yes
Product function	_	
Product function		
 Intrinsic device protection 		Yes
 communication function 		No
Phase failure detection		No
 other measurement function 		No
Accessories		
Manufacturer article number / of the supplied basic		3VA1110-5FD42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)	1-0	25
(Ics) • at 240 V / Rated value	kA	85
 (Ics) at 240 V / Rated value at 415 V / Rated value 	kA	55
 (Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value 	kA kA	55 30
 (Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value 	kA kA kA	55 30 15
 (Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA	55 30
(Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA	55 30 15 5
 (Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA kA kA kA	55 30 15 5 85
(Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA kA kA kA	55 30 15 5 85 55
(Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value 	kA kA kA kA kA kA	55 30 15 5 85 85 55 30
(Ics) at 240 V / Rated value at 415 V / Rated value at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) at 240 V / Rated value at 415 V / Rated value 	kA kA kA kA kA	55 30 15 5 85 55

• at 240 V / Rated value		kA ka	187		
• at 415 V / Rated value		kA	121		
• at 690 V / Rated value	ŀ	kA	17		
Connections					
Arrangement of electrical connectors					
 for main current circuit 			Front termin	al	
Type of connectable conductor cross-section					
 for flat-bar terminal connection / minimum 	n		12 x 0		
 for flat-bar terminal connection / maximu 	m		17 x 6.5		
Design of the electrical connection					
• for main current circuit			Lug termina	I	
lechanical Design					
Height	r	mm	130		
Width	r	mm	101.6		
Depth	r	mm	70		
Mounting type			fixed mounting		
invironmental conditions					
Ambient temperature					
 during operation / minimum 	c	°C	-25		
 during operation / maximum 	c	°C	70		
 during storage / minimum 	c	°C	-40		
 during storage / maximum 	c	°C	80		
Certificates					
Reference code					
• acc. to DIN EN 61346-2			Q		
• acc. to DIN EN 81346-2			Q		
General Product Approval El	МС		claration of	Shipping	other
		Co	nformity	Approval	
ста ГПГ	other				other
			t	GL	
		EG			

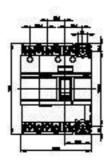
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

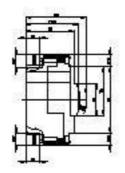
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11105FD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11105FD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11105FD420AA0

Tender specifications http://ausschreibungstexte.siemens.com/tiplv





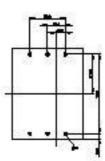




Figure similar

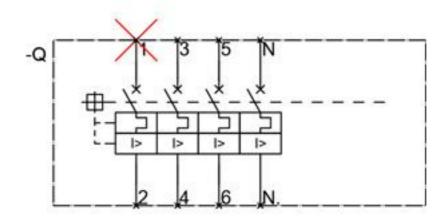


Figure similar

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