SIEMENS

Datasheet

3VA1120-5EF42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=20A OVERLOAD PROTECTION IR=14A ...20A SHORT CIRCUIT PROTECTION II=5...10 X IN NEUTRAL UNPROTECTED 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		
Mechanical service life (switching cycles) / typical Voltage Insulation voltage	V	15 000		

Protection class		
Protective function of the overcurrent release		LI
Switching capacity		
Switching capacity class of the circuit breaker		Μ
	_	
Dissipation		
Active power loss	W	12
• maximum	vv	12
Electricity		
Operating current / at 45 °C / Rated value	А	20
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	20
Adjustable response value current		
 of the current-dependent overload release / 	A	1
Full-scale value		
• of the instantaneous short-circuit release / initial	A	5
value		4 000
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	20
• at 50 °C / Rated value	А	20
• at 55 °C / Rated value	А	20
• at 60 °C / Rated value	А	19
• at 65 °C / Rated value	А	19
• at 70 °C / Rated value	А	19
Auxiliary circuit		
Number of CO contacts		
 for auxiliary contacts 		0
-	_	
Suitability		system protection
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
● of I-trip / Full-scale value	А	10
 for N-conductor protection / initial value 	А	0

Adjustable response value current / of the current-	А	0.7
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 switch		3VA1120-5EF42-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
(Ics)		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 	kA kA	55 30
 (Ics) at 240 V / Rated value at 415 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	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 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 Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA 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) • 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	Lug terminal		
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

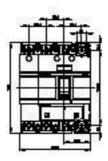
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11205EF420AA0

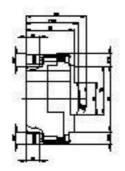
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11205EF420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11205EF420AA0

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





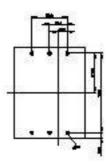




Figure similar

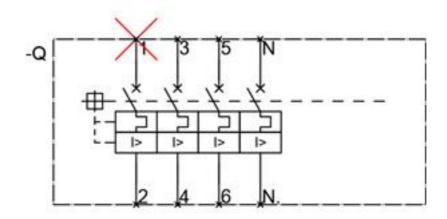


Figure similar

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