SIEMENS

Datasheet

3VA1120-6EE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=20A OVERLOAD PROTECTION IR=14A ...20A SHORT CIRCUIT PROTECTION II=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	_	TM220		
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		Н
	_	
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	A	20
Adjustable response value current		
• of the current-dependent overload release /	A	1
Full-scale value		
 of the instantaneous short-circuit release / initial value 	A	10
Net weight	~	1 200
	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		
Adjustable parameters		
Adjustable response value current		
 of I-trip / Full-scale value 	А	10
 for N-conductor protection / initial value 	А	0
 for N-conductor protection / Full-scale 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		3VA1120-6EE42-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity	-	
(Ics)		100
 (Ics) at 240 V / Rated value 	kA	100
 (Ics) • at 240 V / Rated value • at 415 V / Rated value 	kA	70
 (Ics) at 240 V / Rated value 	kA kA	70 36
 (Ics) • at 240 V / Rated value • at 415 V / Rated value 	kA kA kA	70 36 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	70 36
(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	70 36 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	70 36 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	70 36 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	70 36 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 • at 415 V / Rated value	kA kA kA kA kA	70 36 15 5 100 70

• at 240 V / Rated value	kA	220		
• at 415 V / Rated value	kA	154		
● at 690 V / Rated value	kA	17		
Connections				
Arrangement of electrical connectors				
 for main current circuit 		Front terminal		
Type of connectable conductor cross-section				
 for flat-bar terminal connection / minimum 		12 x 0		
 for flat-bar terminal connection / maximum 		17 x 6.5		
Design of the electrical connection				
• for main current circuit		Lug terminal		
lechanical Design				
Height	mm	130		
Width	mm	101.6		
Depth	mm	70		
Mounting type		fixed mounting	9	
Invironmental conditions				
Ambient temperature				
 during operation / minimum 	°C	-25		
 during operation / maximum 	°C	70		
 during storage / minimum 	°C	-40		
 during storage / maximum 	°C	80		
Certificates				
Reference code				
• acc. to DIN EN 61346-2		Q		
• acc. to DIN EN 81346-2		Q		
General Product Approval EMC		claration of	Shipping Approval	other
	ther			other
		E	GL	

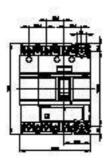
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

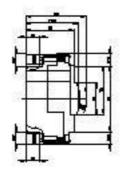
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11206EE420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11206EE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11206EE420AA0

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





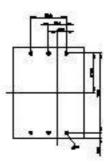




Figure similar

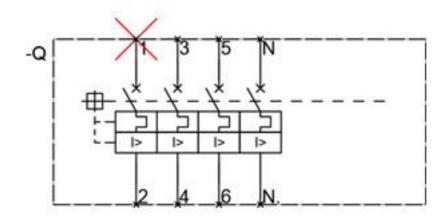


Figure similar

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