SIEMENS

Datasheet

3VA1116-4GE42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=160A OVERLOAD PROTECTION IR=112A ...160A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% 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		U
Quitables especify	_	
Switching capacity Switching capacity class of the circuit breaker	_	S
		č
Dissipation		
Active power loss		
• maximum	W	38
Electricity		
Operating current / at 45 °C / Rated value	А	160
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	160
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		4 600
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	160
● at 50 °C / Rated value	А	160
● at 55 °C / Rated value	А	158
• at 60 °C / Rated value	А	155
• at 65 °C / Rated value	А	153
• at 70 °C / Rated value	А	150
Auxiliary circuit		
Number of CO contacts		
 for auxiliary contacts 		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current	٨	10
• of I-trip / Full-scale value	A	10
• for N-conductor protection / initial value	A	100
 for N-conductor protection / Full-scale value 	A	100

Adjustable response value current / of the current- dependent overload release / initial value	А	0.7
•		
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		3VA1116-4GE42-0AA0
Short circuit		
Short circuit Operational short-circuit current breaking capacity		
Operational short-circuit current breaking capacity (Ics)	kA	66
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value	kA	55
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	36
Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value	kA kA	36 25
Operational short-circuit current breaking capacity (lcs) • at 240 V / Rated value • at 415 V / Rated value • at 440 V / Rated value • at 500 V / Rated value	kA kA kA	36 25 15
Operational short-circuit current breaking capacity (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	36 25
Operational short-circuit current breaking capacity (lcs) • 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 (lcu)	kA kA kA kA	36 25 15 5
Operational short-circuit current breaking capacity (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	36 25 15 5 55
Operational short-circuit current breaking capacity (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	36 25 15 5 55 36
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	other			GI	other
General Product Approval	EMC		Declaration of Conformity	Shipping Approval	other
• acc. to DIN EN 81346-2			Q		
• acc. to DIN EN 61346-2			Q		
Reference code					
Certificates					
 during storage / maximum 		°C	80		
• during storage / minimum		°C	-40		
• during operation / maximum		°C	70		
• during operation / minimum		°C	-25		
Ambient temperature					
Environmental conditions					
Mounting type			fixed mount	ing	
Depth Mounting time		mm	70		
Width		mm	101.6		
Height		mm	130		
lechanical Design					
• for main current circuit			Lug terminal		
Design of the electrical connection					
 for flat-bar terminal connection / m 	aximum		17 x 6.5		
 for flat-bar terminal connection / m 	inimum		12 x 0		
Type of connectable conductor cross-se	ction				
 for main current circuit 			Front termin	nal	
Arrangement of electrical connectors					
Connections					
• at 690 V / Rated value		kA	7.5		
• at 415 V / Rated value		kA	75.6		

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

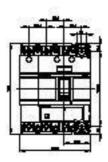
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11164GE420AA0

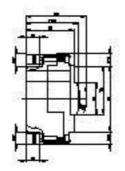
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11164GE420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11164GE420AA0

nup.//www.siemens.com/

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





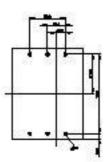




Figure similar

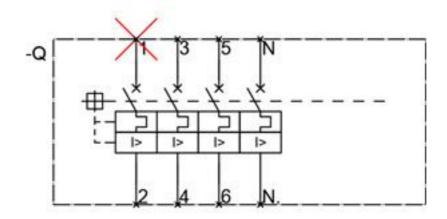


Figure similar

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