SIEMENS

Datasheet

3VA1116-6GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 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% CABLE CONNECTION

Figure similar

product brand nameSENTRONProduct designationMolded case circuit breakerDesign of the productLine protectionProduct variationsGeneral ApplicationsGround fault monitoring versionWithoutDesign of the auxiliary releaseWithout auxiliary releaseDesign of the auxiliary switchWithout	
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Ground fault monitoring version Without Design of the auxiliary release Without auxiliary release	
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 1 value 1	
Trip class / of the L-trip / with I2t characteristic / Full- 1 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 consoity	_			
Switching capacity Switching capacity class of the circuit breaker	_	Н		
Dissipation	_			
Active power loss				
• maximum	W	38		
Electricity				
Operating current / at 45 °C / Rated value	А	160		
Continuous current / Rated value / maximum	A	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		4 000		
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	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				
• of I-trip / Full-scale value	А	10		
 for N-conductor protection / initial value 	A	100		
for N-conductor protection / Full-scale value	A	100		
To reconductor protection / I dir-scale value				

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		3VA1116-6GE46-0AA0
Short circuit Operational short-circuit current breaking capacity	_	
(lcs)		
• at 240 V / Rated value	kA	100
● at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
● at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	100
● at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
	kA	20
 at 500 V / Rated value at 690 V / Rated value 	kA kA	20 10

EAL	other	CE		GL		other	
General Product Approval	EMC	Declaration Conformity			oping roval	other	
• acc. to DIN E					Q		
• acc. to DIN E	EN 61346-2				Q		
Reference code							
ertificates							
 during storage 	je / maximum		°C		80		
 during storage 	je / minimum		°C		-40		
 during opera 	tion / maximum		°C		70		
 during opera 	tion / minimum		°C		-25		
Ambient temperatu	ıre						
nvironmental cor	nditions						
Mounting type					fixed mount	ing	
Depth			mm		70		
Vidth			mm		101.6		
leight			mm		130		
echanical Desig	n						
 for main curr 	ent circuit				Box terminal		
Design of the elect	rical connection						
 of the round 	conductor terminal / s	tranded			1 x (1.5 - 70) mm²)	
Type of connectable conductor cross-section							
for main current circuit				Front terminal			
	ectrical connectors				_		
onnections							
• at 690 V / Ra	ited value		kA		17		
• at 415 V / Ra	ated value		kA		154		

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/3VA11166GE460AA0

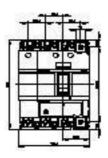
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11166GE460AA0/all

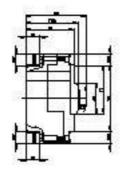
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11166GE460AA0

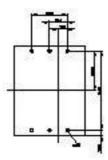
CAx-Online-Generator

http://www.siemens.com/cax

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







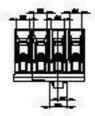


Figure similar

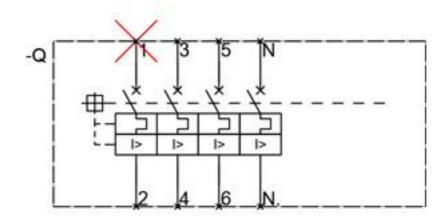


Figure similar

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