SIEMENS

Datasheet

3VA1140-3GE46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM220, ATFM, IN=40A OVERLOAD PROTECTION IR=28A ...40A SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL PROTECTION 100% CABLE 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		N
	_	
Dissipation		
Active power loss	W	10.8
• maximum	vv	10.0
Electricity		
Operating current / at 45 °C / Rated value	А	40
Continuous current / Rated value / maximum	А	160
Continuous current		
Rated value	А	40
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	40
• at 50 °C / Rated value	А	40
• at 55 °C / Rated value	А	39
• at 60 °C / Rated value	А	39
● at 65 °C / Rated value	А	38
• at 70 °C / Rated value	А	37
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
	٨	100
 for N-conductor protection / initial 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		3VA1140-3GE46-0AA0
Short circuit	_	
Operational short-circuit current breaking capacity		
(Ics)		20
• at 240 V / Rated value	kA	36
	kA	25
• at 415 V / Rated value		
• at 440 V / Rated value	kA	16
 at 440 V / Rated value at 500 V / Rated value 	kA kA	16 8
 at 440 V / Rated value at 500 V / Rated value at 690 V / Rated value 	kA	16
 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	16 8 5
 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	16 8 5 36
 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	16 8 5 36 25
 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	16 8 5 36
 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	16 8 5 36 25

EHC		EG-Konf.		GL			
General Product Approval	EMC other	Declaration Conformity			oping roval	other	
acc. to DIN EN		_			Q		
 acc. to DIN EN 					Q		
Reference code							
Certificates							
 during storage / maximum 		°C		80			
• during storage			°C		-40		
 during operation / maximum 		°C		70			
• during operation / minimum		°C		-25			
Ambient temperature	•						
Environmental cond	itions						
Mounting type					fixed mounti	ng	
Depth			mm		70		
Width			mm		101.6		
Mechanical Design Height			mm		130		
 for main curren 					Box terminal		
Design of the electric					(1.3 - 70 mm)		
Type of connectable conductor cross-section • of the round conductor terminal / stranded				1 x (1.5 - 70 mm²)			
• for main current circuit				Front terminal			
Arrangement of elect					-		
Connections			_				
• at 690 V / Rate	d value		kA		7.5		
• at 415 V / Rate	d value		kA		52.5		

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/3VA11403GE460AA0

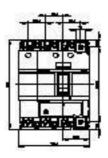
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11403GE460AA0/all

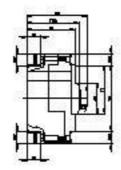
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11403GE460AA0

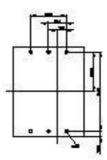
CAx-Online-Generator

http://www.siemens.com/cax

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







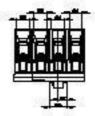


Figure similar

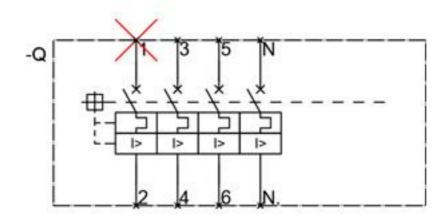


Figure similar

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