SIEMENS

Data sheet

3VA1125-5GF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=25A OVERLOAD PROTECTION IR=17,5A ...25A SHORT CIRCUIT PROTECTION II=5...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		TM240				
General technical data	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						

Protection class IP		IP40				
Protection class IP / on the front		IP40				
Protective function of the overcurrent release	-	LI				
0.111	_					
Switching capacity Switching capacity class of the circuit breaker		Μ				
Switching capacity class of the circuit breaker		IVI				
Dissipation						
Active power loss						
● maximum	W	8.5				
Electricity						
Continuous current / Rated value / maximum	А	160				
Continuous current / Rated value	А	25				
Adjustable response value current						
 of the current-dependent overload release / Full-scale value 	A	1				
 of the instantaneous short-circuit release / initial value 	A	5				
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	25				
• at 50 °C / Rated value	А	25				
• at 55 °C / Rated value	А	24				
• at 60 °C / Rated value	А	24				
• at 65 °C / Rated value	А	23				
• at 70 °C / Rated value	А	23				
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 	А	100				
 for N-conductor protection / Full-scale value 	А	100				
Adjustable response value current / of the current-	А	0.7				
dependent overload release / initial value						
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		3VA1125-5GF46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• 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	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	30
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	17
Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal
Turne of connectable conductor cross costion		

Type of connectable conductor cross-section

• of the round co	onductor terminal / st	randed		1 x (1.5 - 70 mm²)	
Type of electrical co	nnection / for main cu	urrent circuit		Box terminal	
Mechanical Design					
Height			mm	130	
Width			mm	101.6	
Depth			mm	70	
Mounting type				fixed mounting	
Environmental cond	ditions				
Ambient temperatur	e				
 during operation 	on / minimum		°C	-25	
 during operation 	on / maximum		°C	70	
 during storage 	/ minimum		°C	-40	
 during storage 	/ maximum		°C	80	
Certificates					
Equipment marking					
 acc. to DIN EN 	l 61346-2			Q	
 acc. to DIN EN 	N 81346-2			Q	
General Product Approval	EMC	Declaration Conformity		ipping Approval	other
EHC	other	EG-Konf.			other

Further information

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

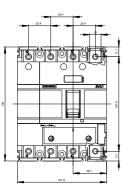
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11255GF460AA0

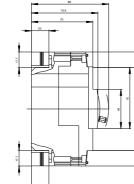
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11255GF460AA0/all

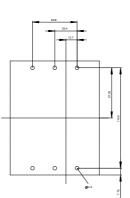
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11255GF460AA0

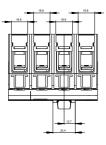
CAx-Online-Generator http://www.siemens.com/cax

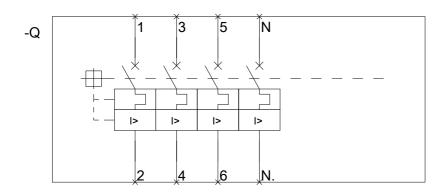
Tender specifications http://ausschreibungstexte.siemens.com/tiplv











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