SIEMENS

Data sheet

3VA1132-4GF46-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM240, ATAM, IN=32A OVERLOAD PROTECTION IR=22,4A ...32A 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						
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 / on the front IP40 Protective function of the overcurrent release LI Switching capacity S Dissipation Active power loss • maximum W 10.6 Continuous current / Rated value / maximum A djustable response value current A • of the current-dependent overload release / Full-scale value A • of the instantaneous short-circuit release / initial value A • of the instantaneous short-circuit release / initial value A • of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / initial value A • of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / Full-scale value A • of the instantaneous short-circuit release / Initial A Operating voltage V 690 • at 40 °C / Rated value A 32 • at						
Switching capacity Switching capacity class of the circuit breaker S Dissipation Active power loss maximum W 10.6 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 32 Adjustable response value current A 32 • of the current-dependent overload release / A 1 Full-scale value A 5 • of the instantaneous short-circuit release / initial value A 5 Value V 690 600 Operating voltage V 600 • or DC / Rated value A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 50 °C / Rated value A 31 • at 60 °C / Rated value A 30 • at 60 °C / Rated value A 30 • at 60 °C / Rated value A 30 • at 60 °C / Rated value						
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Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 600 • for DC / Rated value V 600 Operating current						
• with AC / at 50/60 Hz / Rated value V 690 • for DC / Rated value V 600 Operating current						
Operating current A 32 • at 40 °C / Rated value A 32 • at 50 °C / Rated value A 32 • at 55 °C / Rated value A 31.04 • at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 0 Suitability						
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• at 60 °C / Rated value A 31 • at 65 °C / Rated value A 30 • at 70 °C / Rated value A 30 • at 70 °C / Rated value A 30						
• at 65 °C / Rated value • at 70 °C / Rated value A 30 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability						
• at 70 °C / Rated value A 30 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability						
Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability						
Number of CO contacts / for auxiliary contacts 0 Suitability						
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 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- A 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		3VA1132-4GF46-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• 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	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	121
• at 415 V / Rated value	kA	75.6
• at 690 V / Rated value	kA	7.5
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		

Type of connectable conductor cross-section

• of the round co	onductor terminal / str	anded		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	litions								
Ambient temperature	9								
 during operation 	on / minimum		°C	-25					
 during operation 	on / maximum		°C	70					
 during storage 	/ minimum		°C	-40					
 during storage 	/ maximum		°C	80					
Certificates	Certificates								
Equipment marking									
 acc. to DIN EN 	l 61346-2			Q					
 acc. to DIN EN 	81346-2			Q					
General Product Approval	EMC	Declaration Conformity		pping Approval	other				
EHC	other	EG-Konf.			other				

Further information

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

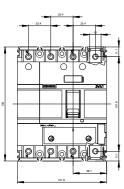
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11324GF460AA0

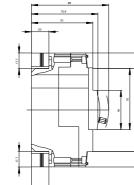
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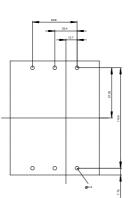
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11324GF460AA0

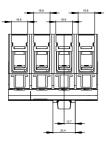
CAx-Online-Generator http://www.siemens.com/cax

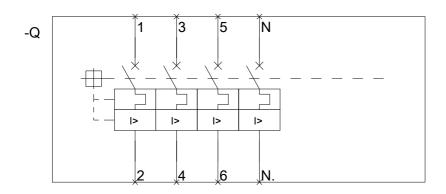
Tender specifications http://ausschreibungstexte.siemens.com/tiplv











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