SIEMENS

Datasheet

3VA1150-4GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=50A OVERLOAD PROTECTION IR=50A FIXED 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	TM210		

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		S
Dissipation		
Active power loss	W	14.6
• maximum	VV	14.0
Electricity		
Operating current / at 45 °C / Rated value	Α	50
Continuous current / Rated value / maximum	Α	160
Continuous current		
Rated value	Α	50
Adjustable response value current		
 of the current-dependent overload release / Full-scale value 	Α	1
 of the instantaneous short-circuit release / initial value 	Α	10
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	Α	50
● at 50 °C / Rated value	Α	50
• at 55 °C / Rated value	Α	49
• at 60 °C / Rated value	Α	48
• at 65 °C / Rated value	Α	46
• at 70 °C / Rated value	Α	45
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current	•	40
of I-trip / Full-scale value	A	10
• for N-conductor protection / initial value	Α	100
• for N-conductor protection / Full-scale value	Α	100

Adjustable response value current / of the current- dependent overload release / initial value	A	1			
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		3VA1150-4GD42-0AA0			
Short circuit					
Operational short-circuit current breaking capacity					
(Ics)	I. A				
• at 240 V / Rated value	kA IsA	55			
• at 415 V / Rated value	kA IsA	36			
• at 440 V / Rated value	kA L-A	25			
at 500 V / Rated value	kA Is A	15			
at 690 V / Rated value	kA	5			
Maximum short-circuit current breaking capacity (Icu)	I. A				
at 240 V / Rated value	kA Is A	55			
• at 415 V / Rated value	kA Is A	36			
• at 440 V / Rated value	kA IsA	25			
• at 500 V / Rated value	kA	16			
at 690 V / Rated value	kA	7			
Short-circuit current making capacity (lcm)					

• 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 current circuit	Front terminal		
Type of connectable conductor cross-section			
• for flat-bar terminal connection / minimum	12 x 0		
• for flat-bar terminal connection / maximum	17 x 6.5		
Design of the electrical connection			
• for main current circuit	Lug terminal		

Mechanical Design			
Height	mm	130	
Width	mm	101.6	
Depth	mm	70	
Mounting type		fixed mounting	

Environmental conditions			
Ambient temperature			
during operation / minimum	°C	-25	
during operation / maximum	°C	70	
during storage / minimum	°C	-40	
during storage / maximum	°C	80	

Certificates				
	Reference code			
	• acc. to DIN EN 61346-2		Q	
	• acc. to DIN EN 81346-2		Q	

other

General Product Approval EMC Declaration of Shipping other Conformity **Approval**









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/3VA11504GD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3VA11504GD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11504GD420AA0

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

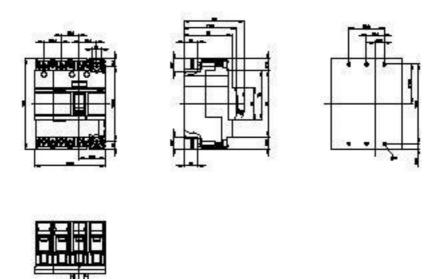


Figure similar

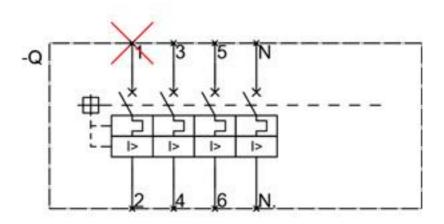


Figure similar

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