SIEMENS

Datasheet

3VA1150-5GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 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		M
Dissipation		
Active power loss	NA /	44.0
• maximum	W	14.6
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 /	Α	1
Full-scale value		
• of the instantaneous short-circuit release / initial	Α	10
value		
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 upo		system protection
Suitability for use		System protection
Adjustable parameters		
Adjustable response value current		
● of I-trip / Full-scale value	Α	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	Α	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		3VA1150-5GD42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics) • at 240 V / Rated value	kA	85
	kA	55
at 415 V / Rated value at 440 V / Rated value	kA kA	30
at 440 V / Rated value at 500 V / Rated value	kA	15
at 500 V / Rated valueat 690 V / Rated value	kA kA	5
	N/A	
Maximum short-circuit current breaking capacity (Icu)	kA	85
at 240 V / Rated valueat 415 V / Rated value	kA	55
	kA	30
• at 440 V / Rated value		
at 500 V / Rated value	kΑ	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (lcm)		

• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	11.9

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 Q • acc. to DIN EN 81346-2

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









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/3VA11505GD420AA0

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

http://support.automation.siemens.com/WW/view/en/3VA11505GD420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11505GD420AA0

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

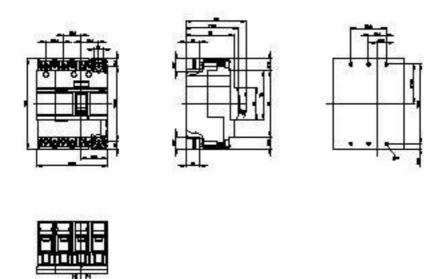


Figure similar

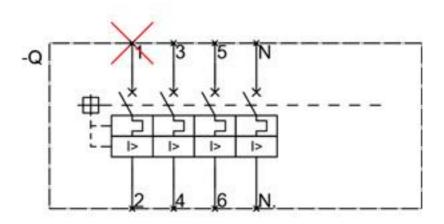


Figure similar

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