SIEMENS

Data sheet

3VA1140-3GD42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS N ICU=25KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=40A OVERLOAD PROTECTION IR=40A 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		

Protection class IP Protection class IP / on the front		IP40
	_	IP40
Protective function of the overcurrent release	_	LI
	_	
Switching capacity		
Switching capacity class of the circuit breaker		Ν
Dissipation		
Active power loss		
• maximum	W	10.8
Electricity		
Continuous current / Rated value / maximum	A	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	А	10
value		
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
 for N-conductor protection / initial value 	А	100
 for N-conductor protection / Full-scale value 	А	100
Adjustable response value current / of the current- dependent overload release / initial value	A	1
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		3VA1140-3GD42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	36
• at 415 V / Rated value	kA	25
• at 440 V / Rated value	kA	16
• at 500 V / Rated value	kA	8
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	75.6
• at 415 V / Rated value	kA	52.5
• 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

• for flat-bar terminal connection / minimu	ım			12 x 0		
• for flat-bar terminal connection / maxim	um			17 x 6.5		
Type of electrical connection / for main currer	nt circuit			Lug termina	I	
lechanical Design						
Height		mm		130		
Width		mm		101.6		
Depth		mm		70		
Mounting type				fixed mounti	ing	
nvironmental conditions						
Ambient temperature						
 during operation / minimum 		°C		-25		
 during operation / maximum 		°C		70		
 during storage / minimum 		°C		-40		
 during storage / maximum 		°C		80		
ertificates						
Equipment marking						
• acc. to DIN EN 61346-2				Q		
• acc. to DIN EN 81346-2				Q		
General Product Approval E	MC			aration of formity	Shipping Ap	proval
	other		C EG-K	E onf.		GL
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/3VA11403GD420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11403GD420AA0/all

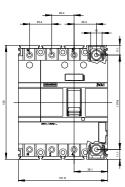
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11403GD420AA0

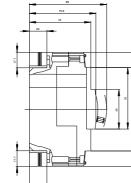
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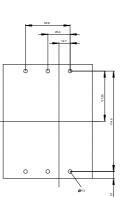
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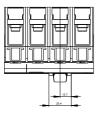
Tender specifications

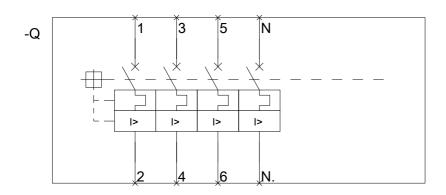
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