SIEMENS

Datasheet

3VA1096-4ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 100 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=16A OVERLOAD PROTECTION IR=16A FIXED SHORT CIRCUIT PROTECTION II=10 X IN NEUTRAL UNPROTECTED 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		Ц
Switching capacity	_	
Switching capacity class of the circuit breaker		S
Dissipation		
Active power loss	14/	40.0
• maximum	W	10.6
Electricity		
Operating current / at 45 °C / Rated value	Α	16
Continuous current / Rated value / maximum	Α	100
Continuous current		
Rated value	Α	16
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		4000
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	16
● at 50 °C / Rated value	Α	16
● at 55 °C / Rated value	Α	16
• at 60 °C / Rated value	Α	15
• at 65 °C / Rated value	Α	15
● at 70 °C / Rated value	Α	15
Auxiliary circuit		
Number of CO contacts		
• for auxiliary contacts		0
Suitability		
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 	A	0
 for N-conductor protection / Full-scale value 	Α	0

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		No
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		3VA1096-4ED42-0AA0
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)	kA	55
at 240 V / Rated value	kA	
at 415 V / Rated value		36
at 440 V / Rated value	kΑ	25
at 500 V / Rated value	kA kA	15
at 690 V / Rated value Movimum short circuit aurent breaking conceits (lov)	kA	5
Maximum short-circuit current breaking capacity (Icu)	kΛ	55
• at 240 V / Rated value	kA kA	55
at 415 V / Rated value	kΑ	36
• at 440 V / Rated value	kA kA	25
at 500 V / Rated value	kA IsA	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	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	Shipping	other
		Conformity	Approval	





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/3VA10964ED420AA0

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

http://support.automation.siemens.com/WW/view/en/3VA10964ED420AA0/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA10964ED420AA0

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

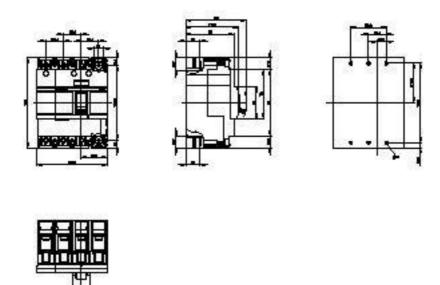


Figure similar

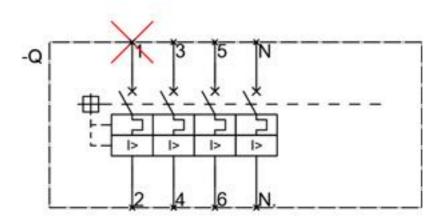


Figure similar

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