SIEMENS

Datasheet

3VA1140-4ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=40A OVERLOAD PROTECTION IR=40A 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		LI
Switching capacity		
Switching capacity class of the circuit breaker		S
Dissipation		
Active power loss	W	10.8
• maximum	vv	10.0
Electricity		
Operating current / at 45 °C / Rated value	А	40
Continuous current / Rated value / maximum	А	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	A	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	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		
	٨	10
 of I-trip / Full-scale value 	A	
 of I-trip / Full-scale value for N-conductor protection / initial value 	A	0

Adjustable response value current / of the current-	A	1
dependent overload release / initial value		
ppearance		
roduct 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
roduct function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		No
 Phase failure detection 		No
 other measurement function 		No
ccessories		
Manufacturer article number / of the supplied basic		3VA1140-4ED42-0AA0
switch		
hort circuit		
Operational short-circuit current breaking capacity		
• at 240 V / Rated value	kA	55
at 415 V / Rated value	kA	36
	kA	25
• at 440 V / Rated value		25 15
• at 500 V / Rated value	kA kA	
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)	μA	55
 at 240 V / Rated value 	kA	55
	kA	36
• at 415 V / Rated value		05
 at 415 V / Rated value at 440 V / Rated value 	kA	25
• at 415 V / Rated value		25 16 7

• 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 termin	nal		
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			
lechanical Design					
Height	mm	130			
Width	mm	101.6			
Depth	mm	70			
Mounting type		fixed mount	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			
General Product Approval EMC		eclaration of onformity	Shipping Approval	other	
	her			other	
		t	GL		

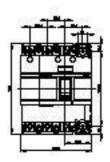
Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

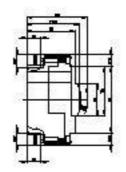
Industry Mall (Online ordering system) https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA11404ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11404ED420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11404ED420AA0

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





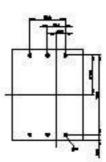




Figure similar

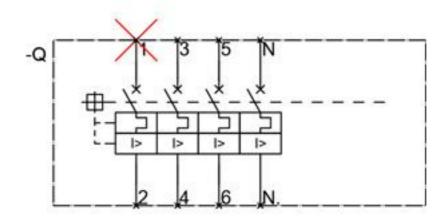


Figure similar

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