SIEMENS

Data sheet

3VA1112-4ED32-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS S ICU=36KA @ 415 V 3-POLE, LINE PROTECTION TM210, FTFM, IN=125A OVERLOAD PROTECTION IR=125A FIXED SHORT CIRCUIT PROTECTION II=10 X IN 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		3
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 / on the front IP40 Protective function of the overcurrent release LI Switching capacity S Switching capacity S Dissipation Active power loss • maximum W 23.2 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum • of the current-dependent overload release / A Full-scale value A • of the current-dependent overload release / A Full-scale value A • of the instantaneous short-circuit release / initial value A • of the instantaneous short-circuit release / initial value A • of the C/ Rated value V Operating voltage V • with AC / at 50/60 Hz / Rated value V • with AC / at 50/60 Hz / Rated value A • at 60 °C / Rated value A • at 65 °C / Rated value A • at 65 °C / Rated value </th <th></th>	
Switching capacity S Dissipation Active power loss • maximum W 23.2 Electricity Continuous current / Rated value / maximum Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A of the current-dependent overload release / Full-scale value A • of the current-dependent overload release / Full-scale value A • of the instantaneous short-circuit release / initial value A • of the instantaneous short-circuit release / initial value V 600 Operating voltage • with AC / at 50/60 Hz / Rated value V 900 for DC / Rated value V 0 S00 Operating ourent A • at 40 °C / Rated value A • at 55 °C / Rated value A • at 60 °C / Rated value A • at 60 °C / Rated value A • at 65 °C / Rated value A • at 67 °C / Rated value A • at 65 °C / Rated value A • at 65 °C / Rated value <td></td>	
Switching capacity class of the circuit breaker S Dissipation Active power loss maximum W 23.2 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 125 Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage with AC / at 50/60 Hz / Rated value V 690 for DC / Rated value V 500 Operating current at 40 °C / Rated value V 500 Operating current at 40 °C / Rated value A 125 at 55 °C / Rated value A 125 at 65 °C / Rated value A 120 at 65 °C / Rated value A 120 at 65 °C / Rated value A 121 at 65 °C / Rated value A 122 at 65 °C / Rated value A 117 at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters 	
Switching capacity class of the circuit breaker S Dissipation Active power loss maximum W 23.2 Electricity Continuous current / Rated value / maximum A 160 Continuous current / Rated value / maximum A 125 Adjustable response value current of the current-dependent overload release / Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage with AC / at 50/60 Hz / Rated value V 690 for DC / Rated value V 500 Operating current at 40 °C / Rated value V 500 Operating current at 40 °C / Rated value A 125 at 55 °C / Rated value A 125 at 65 °C / Rated value A 120 at 65 °C / Rated value A 120 at 65 °C / Rated value A 121 at 65 °C / Rated value A 122 at 65 °C / Rated value A 117 at 70 °C / Rated value A 114 Auxiliary circuit Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters 	_
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• at 65 °C / Rated value A 117 • at 70 °C / Rated value A 114 Auxiliary circuit A 114 Number of CO contacts / for auxiliary contacts 0 Suitability Suitability for use Adjustable parameters System protection	
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Number of CO contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters Adjustable parameters	
Number of CO contacts / for auxiliary contacts 0 Suitability system protection Adjustable parameters Adjustable parameters	
Suitability for use system protection Adjustable parameters Image: Comparison of the system protection	
Suitability for use system protection Adjustable parameters Image: Comparison of the system protection	
of I-trip / Full-scale value A 10	
for N-conductor protection / initial value A 0	
for N-conductor protection / Full-scale value A 0	
Adjustable response value current / of the current- A 1	
dependent overload release / initial value	
Product details	
Product component	

• Trin indicator		No
• Trip indicator		No
• display		
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		3VA1112-4ED32-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	15
• at 690 V / Rated value	kA	5
Maximum short-circuit current breaking capacity (Icu)	_	
• at 240 V / Rated value	kA	55
• at 415 V / Rated value	kA	36
• at 440 V / Rated value	kA	25
• at 500 V / Rated value	kA	16
• at 690 V / Rated value	kA	7
Short-circuit current making capacity (Icm)		
• 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		Front terminal
current circuit		

Type of connectable conductor cross-section

• for flat-bar terminal connection / minimu	m			12 x 0	
 for flat-bar terminal connection / maximu 	um			17 x 6.5	
Type of electrical connection / for main curren	t circuit			Lug termina	l
echanical Design					
leight		mm		130	
Vidth		mm		76.2	
Depth		mm		70	
lounting type				fixed mounti	ing
vironmental conditions					
mbient 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 ormity	Shipping Approval
	other		EG-Ko	E nf.	GL DNV GL
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/3VA11124ED320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11124ED320AA0/all

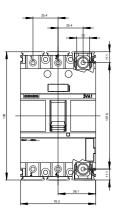
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11124ED320AA0

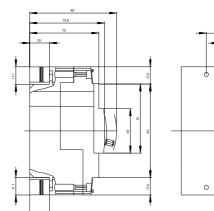
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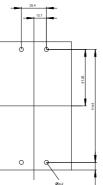
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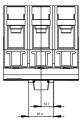
Tender specifications

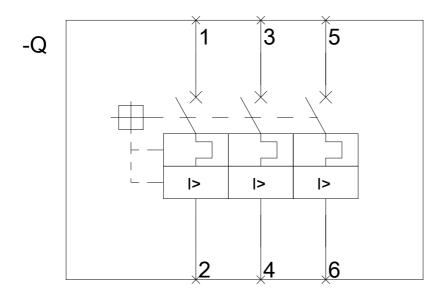
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