SIEMENS

Data sheet

3VA1112-6ED42-0AA0



CIRCUIT BREAKER 3VA1 IEC FRAME 160 BREAKING CAPACITY CLASS H ICU=70KA @ 415 V 4-POLE, LINE PROTECTION TM210, FTFM, IN=125A OVERLOAD PROTECTION IR=125A 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		

Protection class IP / on the front Protective function of the overcurrent release Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A 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	IP40 LI 73.2 160 125 1 10
Switching capacity class of the circuit breaker Dissipation Active power loss • maximum W Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current A • of the current-dependent overload release / A A Full-scale value A • of the instantaneous short-circuit release / initial value A Main circuit Operating voltage	H 23.2 160 125 1
Switching capacity class of the circuit breaker Dissipation Active power loss maximum maximum W Electricity V Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current A • of the current-dependent overload release / A A Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage	23.2 160 125 1
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Dissipation Active power loss W • maximum W Electricity A Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current A • of the current-dependent overload release / A Full-scale value A • of the instantaneous short-circuit release / initial value A Main circuit Operating voltage	23.2 160 125 1
Active power loss W • maximum W Electricity Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current A • of the current-dependent overload release / A Full-scale value • of the instantaneous short-circuit release / initial value Main circuit Operating voltage	160 125 1
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Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current A • of the current-dependent overload release / A Full-scale value • of the instantaneous short-circuit release / initial value A Main circuit Operating voltage Initial	125 1
Continuous current / Rated value A Adjustable response value current A • of the current-dependent overload release / A Full-scale value A • of the instantaneous short-circuit release / initial value A Main circuit Operating voltage	125 1
Adjustable response value current A • of the current-dependent overload release / A Full-scale value A • of the instantaneous short-circuit release / initial value A Main circuit Operating voltage	1
of the current-dependent overload release / A Full-scale value of the instantaneous short-circuit release / initial value Main circuit Operating voltage	
Full-scale value • of the instantaneous short-circuit release / initial value A Main circuit Operating voltage	
value Main circuit Operating voltage	10
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 A	125
• at 50 °C / Rated value A	125
• at 55 °C / Rated value A	122
• at 60 °C / Rated value A	120
• 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	
Adjustable response value current	
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	

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		3VA1112-6ED42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	100
• at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
• 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	100
• at 415 V / Rated value	kA	70
• at 440 V / Rated value	kA	36
• at 500 V / Rated value	kA	20
• at 690 V / Rated value	kA	10
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	220
• at 415 V / Rated value	kA	154
• at 690 V / Rated value	kA	17
Connections		
Arrangement of electrical connectors / for main		Front terminal
current circuit		

Type of connectable conductor cross-section

Depth Nounting type		mm		70 fixed mounti	na
		_			
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	EMC			aration of ormity	Shipping Approval
	other		Confe	ormity	<u> </u>

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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/3VA11126ED420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA11126ED420AA0/all

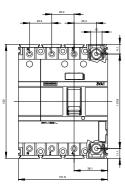
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA11126ED420AA0

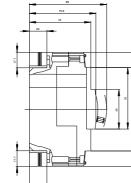
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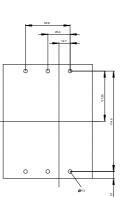
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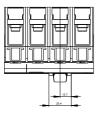
Tender specifications

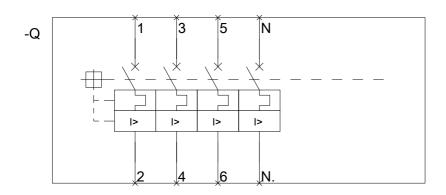
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