SIEMENS

Data sheet

3VA2110-8KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=100A OVERLOAD PROTECTION IR=40A ...100A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) BUSBAR CONNECTION

Model			
product brand name		SENTRON	
Product designation		Molded case circuit breaker	
Design of the product		Line protection	
Product variations		Selective Applications	
Ground fault monitoring version		Without	
Design of the auxiliary release		without auxiliaryrelease	
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		ETU850	
General technical data			
Number of poles		4	
Trip class / of the L-trip / with I2t characteristic / initial value		0.5	
Trip class / of the L-trip / with I2t characteristic / Full- scale value		25	
Electrical endurance (switching cycles)			
• at AC-1 / at 380/415 V / at 50/60 Hz		12 000	
circuit-breaker / Design		3VA	
Mechanical service life (switching cycles) / typical		20 000	
Voltage			
Insulation voltage / Rated value	V	800	
Protection class			

Protection class IP		IP40		
Protection class IP / on the front		IP40		
Protective function of the overcurrent release		LSI		
Switching capacity				
Switching capacity class of the circuit breaker		L		
Dissipation				
Active power loss				
• maximum	W	7.7		
Electricity				
Continuous current / Rated value / maximum	А	160		
Continuous current / Rated value	А	100		
Adjustable response value current / of the	А	1.5		
instantaneous short-circuit release / initial value				
Main circuit				
Operating voltage				
• with AC / at 50/60 Hz / Rated value	V	690		
Operating current				
● at 40 °C / Rated value	А	100		
• at 50 °C / Rated value	А	100		
● at 60 °C / Rated value	А	100		
● at 65 °C / Rated value	А	100		
● at 70 °C / Rated value	А	100		
Auxiliary circuit				
Number of NC contacts / for auxiliary contacts		0		
Number of NO contacts / for auxiliary contacts		0		
Suitability Suitability for use	_	system protection		
- -	_			
Adjustable parameters	_			
Adjustable response value current	•	12		
• of I-trip / Full-scale value	A	12		
 of the short-time delayed short-circuit release / initial value 	A	0.6		
 of the short-time delayed short-circuit release / Full-scale value 	A	10		
 of S-trip / with standard characteristic / initial value 	A	0.6		
 of S-trip / with standard characteristic / Full- scale value 	A	10		
Adjustable delay time				
• of S-trip / with I2t characteristic / initial value	S	0.05		

 of S-trip / with I2t characteristic / Full-scale value 	S	0.5
 of S-trip / with standard characteristic / initial value 	S	0.05
 of S-trip / with standard characteristic / Full- scale value 	S	0.5
Adjustable response value current / of the current-	А	0.4
dependent overload release / initial value		
Product details		
Product component		
Trip indicator		No
● display		Yes
 undervoltage release 		No
Product property		
 for neutral conductors / 		No
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		Yes
 Phase failure detection 		No
 other measurement function 		Yes
Accessories		
Manufacturer article number / of the supplied basic		<u>3VA2110-8KP42-0AA0</u>
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
• at 440 V / Rated value	kA	150
• at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	18
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	200
• at 415 V / Rated value	kA	150
• at 440 V / Rated value	kA	150
• at 500 V / Rated value	kA	100
• at 690 V / Rated value	kA	24
Short-circuit current making capacity (Icm)		
3		

• at 240 V / Rated value	kA	440
• at 415 V / Rated value	kA	330
• at 440 V / Rated value	kA	330
• at 500 V / Rated value	kA	220
• at 690 V / Rated value	kA	48

Connections				
Arrangement of electrical connectors / for main current circuit		Front terminal		
Type of connectable conductor cross-section				
 for flat-bar terminal connection / minimum 		13 x 1 mm		
 for flat-bar terminal connection / maximum 		25 x 8.5		
Type of electrical connection / for main current circuit	_	Lug terminal		
Mechanical Design				
Height	mm	181		
		140		

Width	mm	140
Depth	mm	107
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	

 Equipment marking
 Q

 • acc. to DIN EN 61346-2
 Q

 • acc. to DIN EN 81346-2
 Q

 General Product Approval
 EMC
 Declaration of Conformity
 Shipping Approval

	VDE	EHC	other	EG-Konf.	DINV DNV
Shipping Approval	other				
GL	other				

GL

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/3VA21108KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21108KP420AA0/all

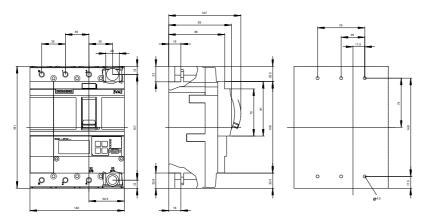
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21108KP420AA0

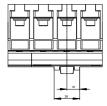
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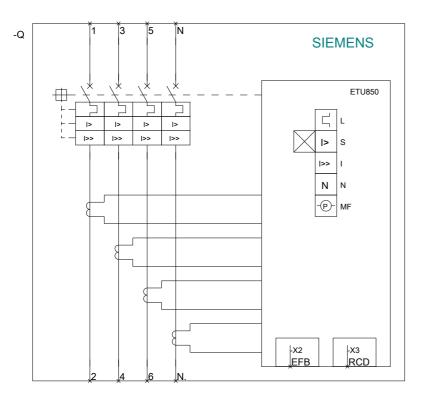
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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