SIEMENS

Data sheet

3VA2110-7KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS C ICU=110KA @ 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	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		C			
Dissipation					
Active power loss					
• maximum	W	10			
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					
 of I-trip / Full-scale value 	А	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- dependent overload release / initial value	A	0.4
Product details		
Product component		
Trip indicator		No
• display		Yes
undervoltage release		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		Yes
 Phase failure detection 		No
 other measurement function 		Yes
Accessories		
Manufacturer article number / of the supplied basic		3VA2110-7KP42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	2.5
Short-circuit current making capacity (Icm)	-	

• at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
• at 500 V / Rated value	kA	187
• at 690 V / Rated value	kA	3.75

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		
Width	mm	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

				,	- + F
	UDE VDE	EHC	<u>other</u>	EG-Konf.	ŮŇV 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/3VA21107KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21107KP420AA0/all

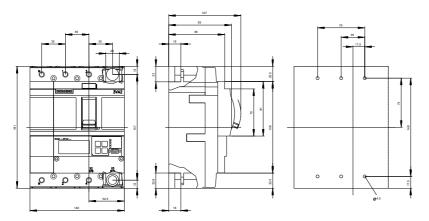
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21107KP420AA0

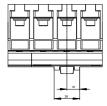
CAx-Online-Generator

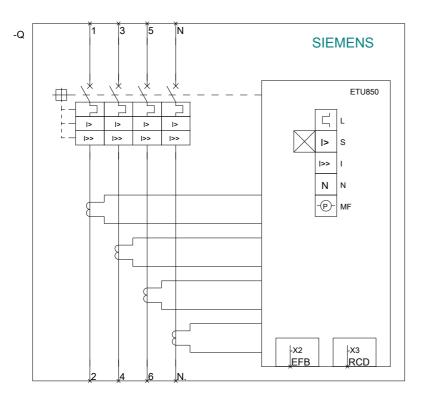
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







last modified:

11.03.2015