SIEMENS

Data sheet

3VA2110-5KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 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
	SENTRON	product brand name
reaker	Molded case circuit breaker	Product designation
	Line protection	Design of the product
,	Selective Applications	Product variations
	Without	Ground fault monitoring version
ee ee	without auxiliaryrelease	Design of the auxiliary release
	Without	Design of the auxiliary switch
	toggle handle	Design of the operating mechanism
	No	Type of the driving mechanism / motor drive
	ETU850	Design of the overcurrent release
	ETU850	Design of the overcurrent release 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		M
Dischartion		
Dissipation Active power loss		
• maximum	W	10
Electricity	^	400
Continuous current / Rated value / maximum Continuous current / Rated value	A	160
	A	1.5
Adjustable response value current / of the instantaneous short-circuit release / initial value	A	1.5
mistaritariosas sitert official religios / mistar value		
Main circuit		
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current		
• at 40 °C / Rated value	Α	100
• at 50 °C / Rated value	Α	100
• at 60 °C / Rated value	Α	100
● at 65 °C / Rated value	Α	100
● at 70 °C / Rated value	Α	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	Α	12
of the short-time delayed short-circuit release /	Α	0.6
initial value		
 of the short-time delayed short-circuit release / Full-scale value 	Α	10
• of S-trip / with standard characteristic / initial value	Α	0.6
• of S-trip / with standard characteristic / Full-scale value	Α	10
Adjustable delay time		
• of S-trip / with I2t characteristic / initial value	S	0.05

s	0.5
S	0.05
s	0.5
Α	0.4
,,	
	No
	Yes
	No
	No
	Yes
	163
	Yes
	Yes
	No
	Yes
	3VA2110-5KP42-0AA0
kA	85
kA kA	85 55
kA	55
kA kA	55 55
kA kA kA	55 55 36
kA kA kA	55 55 36
kA kA kA kA	55 55 36 2.5
kA kA kA kA	55 55 36 2.5
kA kA kA kA	55 55 36 2.5 85 55
	A

• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 440 V / Rated value	kA	121
• at 500 V / Rated value	kA	79
• 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
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

Certificates		
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval	EMC	Declaration of	Shipping
		Conformity	Approval







other





Shipping	other
Approval	



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/3VA21105KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21105KP420AA0/all

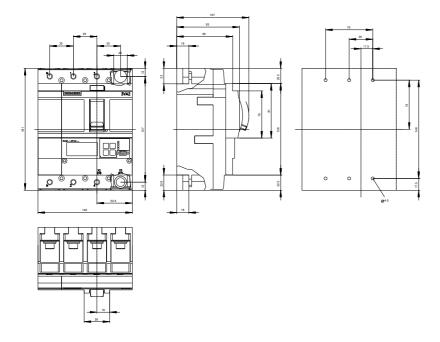
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21105KP420AA0

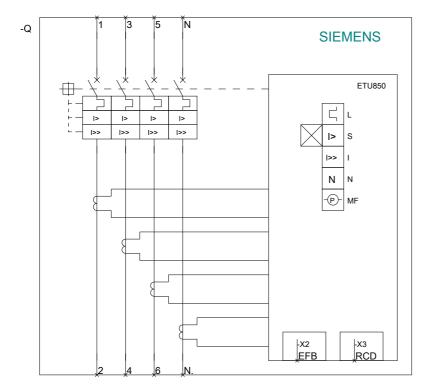
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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