SIEMENS

Data sheet

3VA2325-5KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 400 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4-POLE, LINE PROTECTION ETU850, LSI, IN=250A OVERLOAD PROTECTION IR=100A ...250A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 160%) BUSBAR CONNECTION

Figure similar

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		6 000	
circuit-breaker / Design		3VA	
Mechanical service life (switching cycles) / typical		15 000	

Voltage		
Insulation voltage / Rated value	V	800

Protection class

Protection class IP		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
Dissipation Active power loss		
maximum	W	27
· maximum	•	21
Electricity		
Continuous current / Rated value / maximum	A	400
Continuous current / Rated value	A	250
Adjustable response value current / of the instantaneous short-circuit release / initial value	Α	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	Α	250
• at 50 °C / Rated value	Α	250
• at 60 °C / Rated value	Α	237.5
• at 65 °C / Rated value	Α	230
• at 70 °C / Rated value	Α	220
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
• for N-conductor protection / initial value	Α	20
• for N-conductor protection / Full-scale value	Α	100

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	Α	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		
Accessories Manufacturer article number / of the supplied basic		3VA2325-5KP42-0AA0
		3VA2325-5KP42-0AA0
Manufacturer article number / of the supplied basic switch		3VA2325-5KP42-0AA0
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Manufacturer article number / of the supplied basic switch Short circuit		3VA2325-5KP42-0AA0
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity	kA	3VA2325-5KP42-0AA0 85
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics)	kA kA	
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value		85
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value	kA	85 55
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value	kA	85 55
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu)	kA kA	85 55 5
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value	kA kA kA	85 55 5
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 415 V / Rated value	kA kA kA kA	85 55 5 85 55
Manufacturer article number / of the supplied basic switch Short circuit Operational short-circuit current breaking capacity (Ics) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value Maximum short-circuit current breaking capacity (Icu) • at 240 V / Rated value • at 415 V / Rated value • at 690 V / Rated value • at 690 V / Rated value	kA kA kA kA	85 55 5 85 55

kA	7.5

Connections		
Arrangement of electrical connectors / for main current circuit		Front terminal
Type of connectable conductor cross-section		
 for flat-bar terminal connection / minimum 		20 x 1
• for flat-bar terminal connection / maximum		35 x 10
Type of electrical connection / for main current circuit		Lug terminal

Mechanical Design		
Height	mm	248
Width	mm	184
Depth	mm	137
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	
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General Product Approval	EMC	Declaration of Conformity	other	
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other



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/3VA23255KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA23255KP420AA0/all

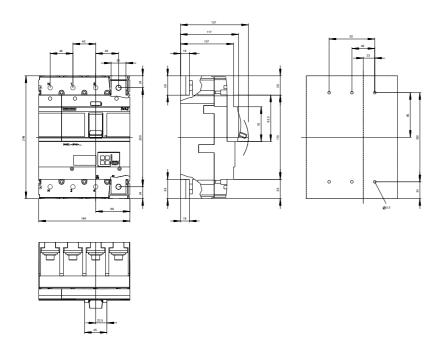
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA23255KP420AA0

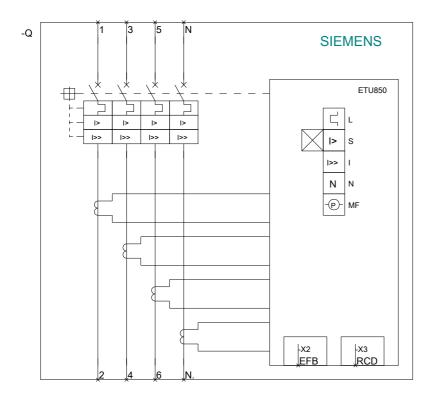
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv





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