SIEMENS

Data sheet

3VA2216-5KP42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU850, LSI, IN=160A OVERLOAD PROTECTION IR=64A ...160A 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		10 000		
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
		201
Switching capacity		
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss		
● maximum	W	19.7
Electricity		
Continuous current / Rated value / maximum	А	250
Continuous current / Rated value	А	160
Adjustable response value current / of the	A	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	160
● at 50 °C / Rated value	А	160
● at 60 °C / Rated value	А	160
● at 65 °C / Rated value	А	160
● at 70 °C / Rated value	А	160
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	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 	А	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 /		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		3VA2216-5KP42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	3
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 440 V / Rated value	kA	55
• at 500 V / Rated value	kA	36
• at 690 V / Rated value	kA	3
Short-circuit current making capacity (Icm)		

• 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	4.5

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

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	

 Equipment marking
 Q

 • acc. to DIN EN 61346-2
 Q

 • acc. to DIN EN 81346-2
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 General Product Approval
 EMC
 Declaration of Conformity
 Shipping Approval

	VDE	EHC	other	EG-Konf.	J. DNV 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/3VA22165KP420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22165KP420AA0/all

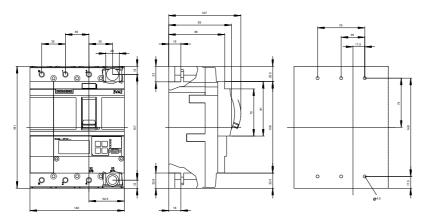
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA22165KP420AA0

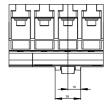
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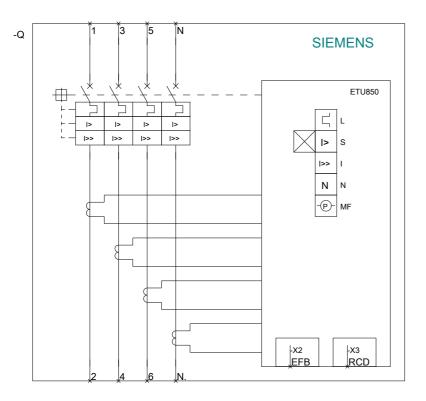
http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv







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