SIEMENS

Data sheet

3VA2216-8KQ32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS L ICU=150KA @ 415 V 3POLE, LINE PROTECTION ETU860, LSIG, IN=160A OVERLOAD PROTECTION IR=64A ...160A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..12X IN NEUTRAL PROTECTION OPTIONAL WITH EXT. CT,UPTO 160% GROUNDFAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,050,8MS 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		Summation current formation L-conductor	
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		ETU860	
General technical data			
Number of poles		3	
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	
Total disconnection time / for G-tripping / with standard characteristic / initial value	s	0.05	
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0.8	
circuit-breaker / Design		3VA	
Mechanical service life (switching cycles) / typical		20 000	

Voltage		
Insulation voltage / Rated value	V	800
Drotation close		
Protection class Protection class IP	_	IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LSIG
Switching capacity		
Switching capacity class of the circuit breaker		L
Dissipation		
Active power loss		
• maximum	W	19.7
	_	
Electricity Continuous current / Rated value / maximum	A	250
Continuous current / Rated value	A	160
Adjustable response value current / of the	A	1.5
instantaneous short-circuit release / initial value		
Main circuit	_	
Operating voltage	V	690
• with AC / at 50/60 Hz / Rated value	V	090
Operating current	•	400
• at 40 °C / Rated value	A	160
• at 50 °C / Rated value	A	160
• at 60 °C / Rated value	A	160
• at 65 °C / Rated value	A	160
• at 70 °C / Rated value	A	160
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Cuitabilit <i>u</i>		
Suitability Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
 for G-tripping / with I2t characteristic / initial value 	A	0.2
• for G-tripping / with I2t characteristic / Full-scale	А	1
value		
• for G-tripping / with standard characteristic /	А	0.2
initial value		
 for G-tripping / with standard characteristic / 	А	1
Full-scale value		

 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	-	
 for G-tripping / with l2t characteristic / initial value 	S	0.05
 for G-tripping / with I2t characteristic / Full-scale value 	S	0.8
• 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	_	
 of the circuit breaker with tripping unit / Tripping characteristic adjustable 		Yes
 for neutral conductors / 		Yes
upgradeable/retrofittable / Short-circuit and overload proof		
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
• • • • • • • • • • • • • • • • • • •		Yes
 communication function 		Tes
Communication functionPhase failure detection		No

Accessories

Manufacturer article number / of the supplied basic 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)	-		
• 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	Front terminal
current circuit	
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	105
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 marki	ing					
 acc. to DIN 	EN 61346-2			Q		
 acc. to DIN 	EN 81346-2			Q		
General Proc	luct Approval		EM	С	Declaration of	Shipping
					Conformity	Approval
		EAC		<u>other</u>	EG-Konf.	ĴÅ DNV DNV

Shipping	other
Approval	
	other
GL	

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Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

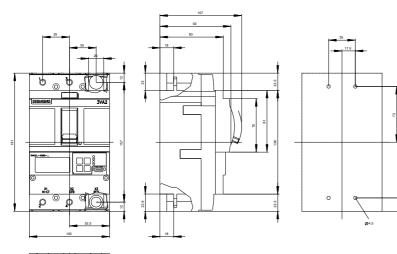
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA22168KQ320AA0

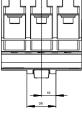
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22168KQ320AA0/all

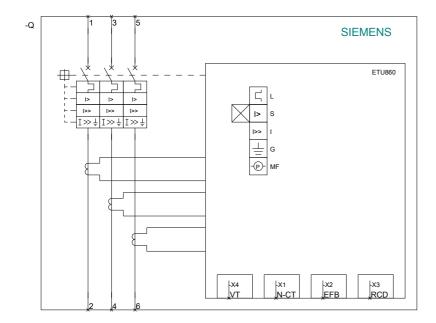
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA22168KQ320AA0

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv







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