SIEMENS

Data sheet

3VA2116-5KQ32-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS M ICU=55KA @ 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..10X 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		12 000
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
		000
Desta stien slass	_	
Protection class Protection class IP		IP40
Protection class IP / on the front	_	IP40
Protective function of the overcurrent release	_	LSIG
		2010
Switching capacity	-	
Switching capacity class of the circuit breaker		Μ
Dissipation		
Active power loss		
• maximum	W	25.5
Electricity		
Continuous current / Rated value / maximum	A	160
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	A	160
• at 65 °C / Rated value	А	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
		0
Suitability	-	
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
 for G-tripping / with I2t characteristic / initial value 	А	0.2
 for G-tripping / with I2t characteristic / Full-scale value 	A	1
 for G-tripping / with standard characteristic / initial value 	А	0.2
 for G-tripping / with standard characteristic / Full-scale value 	A	1

 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 	А	10
Adjustable delay time		
 for G-tripping / with I2t 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 / upgradeable/retrofittable / Short-circuit and overload proof 		Yes
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		Yes
 Phase failure detection 		Na
		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	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	2.5	
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	2.5	
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	3.75	

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.	DNV DNV

Shipping	other
Approval	
	other
GL	

GL

Further information

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

Industry Mall (Online ordering system)

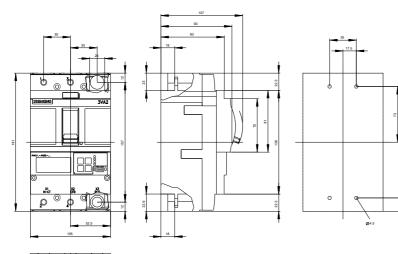
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21165KQ320AA0

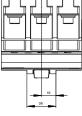
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21165KQ320AA0/all

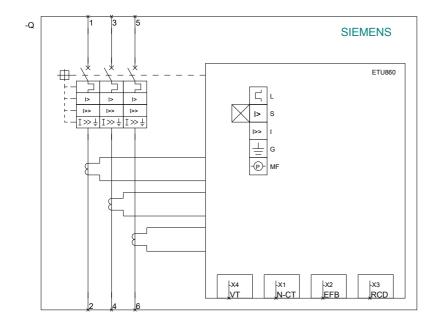
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21165KQ320AA0

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

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







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