SIEMENS

Data sheet

3VA2216-7JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 4POLE, LINE PROTECTION ETU560, LSIG, 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%) 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 + N 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		ETU560
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
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

Protection class Protection class IP Protection class IP / on the front I Protective function of the overcurrent release Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss	800 IP40 IP40 LSIG C
Protection class IP I Protection class IP / on the front I Protective function of the overcurrent release I Switching capacity I Switching capacity class of the circuit breaker I Dissipation I Active power loss I	IP40 LSIG
Protection class IP I Protection class IP / on the front I Protective function of the overcurrent release I Switching capacity I Switching capacity class of the circuit breaker I Dissipation I Active power loss I	IP40 LSIG
Protection class IP / on the front I Protective function of the overcurrent release I Switching capacity I Switching capacity class of the circuit breaker I Dissipation I Active power loss I	IP40 LSIG
Protective function of the overcurrent release L Switching capacity Switching capacity class of the circuit breaker C Dissipation C Active power loss C	LSIG
Switching capacity Switching capacity class of the circuit breaker Dissipation Active power loss	
Switching capacity class of the circuit breaker 0 Dissipation 0 Active power loss 0	<u></u>
Dissipation Active power loss	C
Active power loss	0
• maximum W 1	
maximum	19.7
Electricity	
	250
Continuous current / Rated value A 1	160
Adjustable response value current / of the A 1	1.5
instantaneous short-circuit release / initial value	
Main circuit	
Operating voltage	
	690
Operating current	
	160
• at 50 °C / Rated value A 1	160
• at 60 °C / Rated value A	160
• at 65 °C / Rated value A 1	160
• at 70 °C / Rated value A	160
Auxiliary circuit Number of NC contacts / for auxiliary contacts 0	0
	0
	·
Suitability	
Suitability for use	system protection
Adjustable parameters	
Adjustable response value current	
for G-tripping / with I2t characteristic / initial A Value	0.2
for G-tripping / with I2t characteristic / Full-scale A 1 value	1
• for G-tripping / with standard characteristic / A G initial value	0.2
for G-tripping / with standard characteristic / A 1 Full-scale value	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 	А	0.6
 of S-trip / with standard characteristic / Full- scale value 	A	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-	А	0.4
dependent overload release / initial value		
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 		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

Accessories

No

Manufacturer article number / of the supplied basic switch

Short circuit				
Operational short-circuit current breaking capacity				
(Ics)				
• at 240 V / Rated value	kA	150		
• at 415 V / Rated value	kA	110		
• at 440 V / Rated value	kA	110		
• at 500 V / Rated value	kA	85		
• at 690 V / Rated value	kA	3		
Maximum short-circuit current breaking capacity (Icu)	-			
• at 240 V / Rated value	kA	150		
• at 415 V / Rated value	kA	110		
• at 440 V / Rated value	kA	110		
• at 500 V / Rated value	kA	85		
• at 690 V / Rated value	kA	3		
Short-circuit current making capacity (Icm)				
• at 240 V / Rated value	kA	330		
• at 415 V / Rated value	kA	242		
• at 440 V / Rated value	kA	242		
• at 500 V / Rated value	kA	187		
• at 690 V / Rated value	kA	4.5		

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	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	

Certificat	tes					
Equipme	ent marking	g				
• ac	c. to DIN E	N 61346-2		Q		
• ac	c. to DIN E	N 81346-2		Q		
Gene	eral Produ	ct Approval	EM	С	Declaration of	Shipping
					Conformity	Approval
Ga	>	\wedge		other		¥ &

Shipping	other
Approval	
	other
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Further information

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

Industry Mall (Online ordering system)

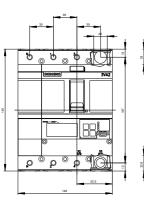
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA22167JQ420AA0

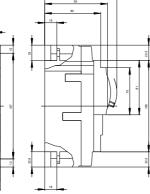
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22167JQ420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA22167JQ420AA0

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

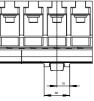
Tender specifications http://ausschreibungstexte.siemens.com/tiplv



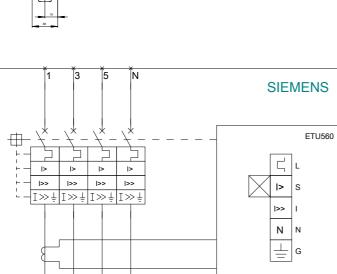


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