SIEMENS

Data sheet

3VA2116-8JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 BREAKING CAPACITY CLASS L ICU=150KA @ 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..10X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 100%) 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		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

Insulation voltage / Rated value V 800 Protection class IP IP40 Protection class IP / on the front IP40 Switching capacity Switching capacity Switching capacity class of the circuit breaker L Dissipation Adive power loss I • maximum W 19.7 Electricity Continuous current / Rated value / maximum A Continuous current / Rated value / maximum A 160 Continuous current / Rated value A 160 Questable response value current / of the instantaneous short-circuit release / initial value A 160 Adim circuit Operating voltage • • • with AC / at 50/60 Hz / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A	Voltage		
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Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable response value current • for G-tripping / with l2t characteristic / initial value A 0.2 0.2	• at 70 °C / Rated value	А	160
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability for use system protection Adjustable parameters Adjustable response value current • for G-tripping / with l2t characteristic / initial value A 0.2 0.2	Auxiliary circuit		
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Suitability for use system protection Adjustable parameters Adjustable response value current • for G-tripping / with l2t characteristic / initial value A 0.2 • for G-tripping / with l2t characteristic / Full-scale value A 1 • for G-tripping / with l2t characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 0.2			
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value • for G-tripping / with standard characteristic / A 0.2 initial value		A	0.2
initial value		A	1
for G-tripping / with standard characteristic / A 1		А	0.2
Full-scale value	 for G-tripping / with standard characteristic / Full-scale value 	А	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 		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
 Intrinsic device protection 		Yes
 communication function 		Yes
		Nie

Phase failure detection

other measurement function

Accessories

No No Manufacturer article number / of the supplied basic switch

Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• 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	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	

Certificates						
Equipment mark	ting					
 acc. to DIN 	NEN 61346-2			Q		
• acc. to DIN	NEN 81346-2			Q		
General Pro	duct Approval		EM	С	Declaration of	Shipping
					Conformity	Approval
		EHC		other	EG-Konf.	

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)

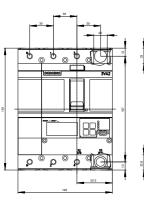
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21168JQ420AA0

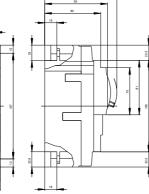
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21168JQ420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21168JQ420AA0

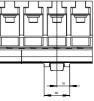
CAx-Online-Generator http://www.siemens.com/cax

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

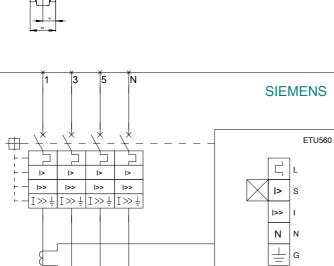




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-X3 RCD

-X2 EFB

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11.03.2015