SIEMENS

Data sheet

3VA2063-5JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 100 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 4POLE, LINE PROTECTION ETU560, LSIG, IN=63A OVERLOAD PROTECTION IR=25A ...63A 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		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 Switching capacity Switching capacity Switching capacity Continuous current / Rated value / maximum A Continuous current / Rated value / maximum A Continuous current / Rated value A Continuous current / Rated value A Main oricult A Operating voltage v • with AC / at 5000 Hz / Rated value V Operating current 63 • at 40 °C / Rated value A • at 50 °C / Rated value A • at 60 °C / Rated value A • at 60 °C / Rated value A • at 60 °C / Rated value A • at 50 °C / Rated value A • at 50 °C / Rated value B • at 50 °C / Rated value A • at 50 °C / Rated value A • at 50 °C / Rated value A • at 50 °C / Rated value B	Voltage		
Protection class IP IP40 Protection class IP / on the front IP40 Protective function of the overcurrent release LSIG Switching capacity M Dissipation M Active power loss M • maximum W Continuous current / Rated value / maximum A Continuous current / Rated value A Adjustable response value current / of the instantaneous short-circuit release / initial value N Main circuit Operating voltage • • with AC / at 50/60 Hz / Rated value V 690 Operating voltage • 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value </td <td></td> <td>V</td> <td>800</td>		V	800
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Protective function of the overcurrent release LSIG Switching capacity M Dissipation M Active power loss • maximum W 5.4 Electricity Continuous current / Rated value / maximum A 100 Continuous current / Rated value / maximum Continuous current / Rated value / maximum A Gontinuous current / Rated value / maximum A Adjustable response value current / of the instantaneous short-circuit release / initial value A Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 0perating voltage A • at 40 °C / Rated value A • at 50 °C / Rated value A • at 65 °C / Rated value A • at 67 °C / Rated value A • 00 Suttability <td></td> <td>-</td> <td></td>		-	
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Instantaneous short-circuit release / initial value Main circuit Operating voltage V 690 Operating current 63 • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • Do Contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters A 0.25 Adjustable response value current A 1 • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with 12t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / <td< td=""><td>Continuous current / Rated value</td><td>А</td><td>63</td></td<>	Continuous current / Rated value	А	63
Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current		А	1.5
Operating voltage V 690 Operating current A 63 • at 40 °C / Rated value A 63 • at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxiliary circuit A 63 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Suitability Suitability for use system protection Adjustable parameters A Adjustable response value current A 0.25 • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with standard characteristic / A 0.25 • for G-tripping / with standard characteristic / A 0.25 • for G-tripping / with standard characteristic / A 0.25 • for G-tripping / wit	Instantaneous short-circuit release / initial value		
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• at 50 °C / Rated value A 63 • at 60 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxiliary circuit Number of NC contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 0 Suitability Suitability Suitability Suitability for use Suitability system protection Adjustable parameters Adjustable parameters Adjustable response value current 0.25 • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.25 1	Operating current		
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• at 65 °C / Rated value A 63 • at 65 °C / Rated value A 63 • at 70 °C / Rated value A 63 Auxiliary circuit A 63 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability Suitability for use Adjustable parameters system protection Adjustable response value current 0.25 • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with standard characteristic / initial value A 0.25 • for G-tripping / with standard characteristic / A 1 1	• at 50 °C / Rated value	А	63
• at 70 °C / Rated value A 63 Auxiliary circuit 0 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters Adjustable response value current • for G-tripping / with 12t characteristic / initial value A 0.25 • for G-tripping / with 12t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.25 • for G-tripping / with standard characteristic / A 1	● at 60 °C / Rated value	А	63
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Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters system protection Adjustable response value current 0 • for G-tripping / with 12t characteristic / initial value A 0.25 • for G-tripping / with 12t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.25 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.25	● at 70 °C / Rated value	А	63
Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability system protection Adjustable parameters Adjustable response value current • for G-tripping / with l2t characteristic / initial value A • for G-tripping / with l2t characteristic / Full-scale value A • for G-tripping / with standard characteristic / Full-scale value A • for G-tripping / with standard characteristic / A 0.25	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 0.25 • for G-tripping / with l2t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.25 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.25	Suitability		
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value A 1 • for G-tripping / with l2t characteristic / Full-scale value A 0.25 • for G-tripping / with standard characteristic / initial value A 1		А	0.25
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 for G-tripping / with standard characteristic / A 0.25 for G-tripping / with standard characteristic / A 1 	 for G-tripping / with I2t characteristic / Full-scale 	А	1
 initial value for G-tripping / with standard characteristic / A 1 	value		
		A	0.25
Full-scale value	 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 	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- 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		
		Yes

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		
(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
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
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

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	ing					
 acc. to DIN 	I EN 61346-2			Q		
 acc. to DIN 	I EN 81346-2			Q		
General Proc	duct Approval		EM	С	Declaration of	Shipping
					Conformity	Approval
	VDE	EAC		other	EG-Konf.	

Shipping	other
Approval	
	other
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GL

Further information

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

Industry Mall (Online ordering system)

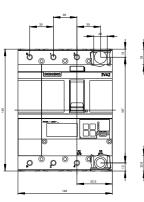
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA20635JQ420AA0

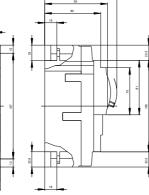
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA20635JQ420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA20635JQ420AA0

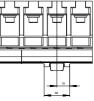
CAx-Online-Generator http://www.siemens.com/cax

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

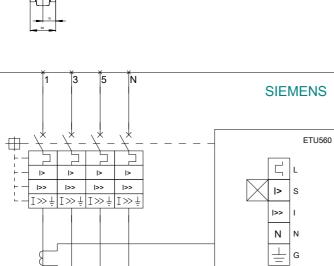




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-X2 EFB -X3 RCD last modified:

11.03.2015