SIEMENS

Data sheet

3VA2163-5JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 160 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

Voltage		
Insulation voltage / Rated value	V	800
	_	
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		Μ
Dissipation		
Active power loss		
• maximum	W	4
Electricity		
Continuous current / Rated value / maximum	A	160
Continuous current / Rated value	A	63
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	v	000
at 40 °C / Rated value	А	63
	A	63
• at 50 °C / Rated value		63
• at 60 °C / Rated value	A	
• at 65 °C / Rated value	A	63
• at 70 °C / Rated value	A	63
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		system protection
Adjustable parameters		
Adjustable response value current		
 for G-tripping / with I2t characteristic / initial 	А	0.25
value		
• for G-tripping / with I2t characteristic / Full-scale	А	1
value		
• for G-tripping / with standard characteristic /	А	0.25
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 	А	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 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
 for neutral conductors / upgradeable/retrofittable / Short-circuit and 		No Yes
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive 		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof 		
 for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive Product function 		
for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof Product expansion / optional / motor drive Product function Product function		Yes

Accessories

• other measurement function

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	2.5	
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	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 mar	king					
• acc. to DI	N EN 61346-2			Q		
• acc. to DI	N EN 81346-2			Q		
General Pro	duct Approval		EM	С	Declaration of	Shipping
					Conformity	Approval
(m)	DE	103		other	CE	ĴÅ

Shipping	other
Approval	
	other
GL	

GL

Further information

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

Industry Mall (Online ordering system)

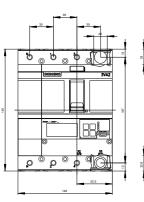
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21635JQ420AA0

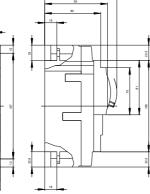
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21635JQ420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA21635JQ420AA0

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

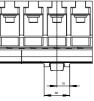
Tender specifications http://ausschreibungstexte.siemens.com/tiplv



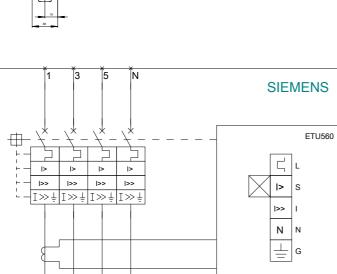


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