SIEMENS

Data sheet

3VA2216-5JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 250 BREAKING CAPACITY CLASS M ICU=55KA @ 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

Insulation voltage / Rated value V 800 Protection class IP / on the front IP40 Switching capacity Switching capacity Switching capacity IN Switching capacity IN Dissipation Adjustable response value current / Pated value Adjustable response value current / of the instantaneous stort-circuit release / initial value A Main circuit Operating voltage V Operating outrent 4 160 • at 40 °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 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160	Voltage				
Protection class IP IP40 Protection class IP / on the front IP40 Protective function of the overcurrent release LSIG Switching capacity Switching capacity Switching capacity M Dissipation Active power loss • maximum W Electricity Continuous current / Rated value / maximum A clive power loss • maximum Continuous current / Rated value Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating voltage • with AC / at 50/60 Hz / Rated value A 160 • at 60 °C / Rated value • at 60 °C / Rated value A 160 • at 60 °C / Rated value • at 60 °C / Rated value • at 70		V	800		
Protection class IP IP40 Protection class IP / on the front IP40 Protective function of the overcurrent release LSIG Switching capacity Switching capacity Switching capacity M Dissipation Active power loss • maximum W Electricity Continuous current / Rated value / maximum A clive power loss • maximum Continuous current / Rated value Adjustable response value current / of the instantaneous short-circuit release / initial value Main circuit Operating voltage • with AC / at 50/60 Hz / Rated value V 690 Operating voltage • with AC / at 50/60 Hz / Rated value A 160 • at 60 °C / Rated value • at 60 °C / Rated value A 160 • at 60 °C / Rated value • at 60 °C / Rated value • at 70					
Protection class IP / on the front IP40 Protective function of the overcurrent release LSIG Switching capacity M Switching capacity class of the circuit breaker M Protective function of the overcurrent release LSIG Switching capacity class of the circuit breaker M Protective function of the overcurrent release M Opsignation Active power loss • maximum W 19.7 Electricity Continuous current / Rated value / maximum A Adjustable response value current / of the instantaneous short-circuit release / initial value A 160 Main circuit Operating outage V 690 • with AC / at 50/60 Hz / Rated value A 160 4160 • at 40 °C / Rated value A 160 4160 • at 60 °C / Rated value A 160 4160 • at 60 °C / Rated value A 160 160 • at 60 °C / Rated value A 160 160 • at 60 °C / Rated value A 160 160 • at 60 °C / Rated value A 160 160		_	IP40		
Protective function of the overcurrent release LSIG Switching capacity M Dissipation Active power loss • maximum W 19.7 Electricity Continuous current / Rated value / maximum A 250 Continuous current / Rated value 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 Operating voltage V • at 40 °C / Rated value A • at 50 °C / Rated value A • at 50 °C / Rated value A • at 65 °C / Rated value A • at 65 °C / Rated value A • at 65 °C / Rated value A • at 70 °C / Rated value A • at 70 °C / Rated value O • at 70 °C / Rated value 0 Number of NC contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Suitability System protection Adjustable parameters A Adjustable parameters A <td></td> <td></td> <td></td>					
Switching capacity Switching capacity class of the circuit breaker M Dissipation Adive power loss M Active power loss W 19.7 Electricity Continuous current / Rated value / maximum A 250 Continuous current / Rated value / maximum A 250 Continuous current / Rated value / maximum A 250 Continuous current / Rated value A 160 Adjustable response value current / of the instantaneous short-circuit release / initial value A 15 Main circuit Operating voltage V 690 Operating voltage V 690 Operating current / Rated value V 690 Operating voltage V 690 Operating voltage V 690 Operating current at 40 °C / Rated value A 160 at 50 °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 70 °C / Rated value O Number of NC contacts / for auxiliary contacts O Number of NC contacts / for auxiliary contacts O Number of NC contacts / for auxiliary contacts					
Switching capacity class of the circuit breaker M Dissipation Active power loss W Imaximum W Displation Continuous current / Rated value / maximum A 250 Continuous current / Rated value A 160 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 690 Operating urg urgent • at 40 °C / Rated value A • at 60 °C / Rated value A • at 70 °C / Rated value A • Displation B • Auxiliary circuit Number of NO contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Suitability value • for G-tripping / with 12t characteristic / initial value <t< td=""><td></td><td></td><td>1010</td></t<>			1010		
Dissipation Active power loss maximum • maximum W Electricity Continuous current / Rated value / maximum A 250 Continuous current / Rated value 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 690 Operating outage • it60 • with AC / at 50/60 Hz / Rated value A 160 • at 40 °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 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 Suitability Suitability Suitability Suitability Suitability for use system					
Active power loss W 19.7 Electricity Continuous current / Rated value / maximum A 250 Continuous current / Rated value A 160 Adjustable response value current / of the instantaneous short-circuit release / initial value A 15 Main circuit Operating voltage V 690 Operating current A 160 • with AC / at 50/60 Hz / Rated value V 690 Operating current A 160 • at 40 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 Sutability Sutability Sutability Sutability Sutability Sutability Sutability A 0.2 value • 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 cha	Switching capacity class of the circuit breaker		Μ		
• maximum W 19.7 Electricity A 250 Continuous current / Rated value A 160 Adjustable response value current / of the instantaneous short-circuit release / initial value A 1.5 Main circuit A 1.5 Operating voltage v 690 Operating current A 160 • at 40 °C / Rated value V 690 Operating current A 160 • at 40 °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 160 • at 60 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value O O • Suitability for use system protection Suitability for use system protection Adjustable response value current A 0.2 value • for G-tripping / with 12t characteristic / initial value A 1 • for G-	Dissipation				
Electricity A 250 Continuous current / Rated value A 160 Adjustable response value current / of the instantaneous short-circuit release / initial value A 1.5 Main circuit Operating voltage V 690 Operating current at 40 °C / Rated value V 690 Operating current at 40 °C / Rated value A 160 • at 40 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 Sutability Sutability Sustability Sutability Sustability Sustability • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with 12t characteristic / Full-scale value A 1 <tr< td=""><td>Active power loss</td><td></td><td></td></tr<>	Active power loss				
Continuous current / Rated value / maximum A 250 Continuous current / Rated value A 160 Adjustable response value current / of the A 1.5 instantaneous short-circuit release / initial value A 1.5 Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating ourrent - - - • at 40 °C / Rated value A 160 - • at 60 °C / Rated value A 160 - • at 65 °C / Rated value A 160 - • at 65 °C / Rated value A 160 - • at 65 °C / Rated value A 160 - • at 65 °C / Rated value A 160 - • at 70 °C / Rated value A 160 - • at 70 °C / Rated value A 160 - • at 70 °C / Rated value A 160 - • Difficity Circuit Number of NC contacts / for auxiliary contacts 0 - Number of NO contacts / for auxiliary contacts 0	• maximum	W	19.7		
Continuous current / Rated value / maximum A 250 Continuous current / Rated value A 160 Adjustable response value current / of the A 1.5 instantaneous short-circuit release / initial value A 1.5 Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current - - - • at 40 °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 160 - • at 70 °C / Rated value A 160 - • at 70 °C / Rated value A 160 - • bo °C / Rated value A 160 - • bo °C / Rated value A 160 - -	Electricity				
Adjustable response value current / of the instantaneous short-circuit release / initial value A 1.5 Main circuit Operating voltage V 690 • with AC / at 50/60 Hz / Rated value V 690 Operating current - - • at 40 °C / Rated value A 160 • at 50 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 Auxiliary circuit V O Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters A 0.2 Autue or G-tripping / with 12t characteristic / Full-scale A		A	250		
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 A 160 at 50 °C / Rated value A 160 at 60 °C / Rated value A 1 Auxiliary circuit Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability for use system protection Adjustable parameters Adjustable response value current of cr-tripping / with 12t characteristic / initial value of cr-tripping / with 12t characteristic / Full-scale value of cr-tripping / with standard characteristic / A 0.2 initial value of cr-tripping / with standard characteristic / A 0.2 	Continuous current / Rated value	А	160		
Main circuit Operating voltage V 690 Operating current - - • at 40 °C / Rated value A 160 • at 50 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • Suitability 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 A 0.2 value • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with standard characteristic / A 1 • for G-tripping / with sta	Adjustable response value current / of the	А	1.5		
Operating voltage V 690 Operating current A 160 • at 40 °C / Rated value A 160 • at 50 °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 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 Auxiliary circuit A 160 Number of NC contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Suitability Suitability Suitability for use system protection Adjustable parameters A Adjustable response value current 6 or G-tripping / with 12t characteristic / initial value • for G-tripping / with 12t characteristic / Full-scale A 1 value • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 1 • for G-tripping / with standard chara	instantaneous short-circuit release / initial value				
Operating voltage V 690 Operating current A 160 • at 40 °C / Rated value A 160 • at 50 °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 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 Auxiliary circuit A 160 Number of NC contacts / for auxiliary contacts 0 Number of NC contacts / for auxiliary contacts 0 Suitability Suitability Suitability for use system protection Adjustable parameters A Adjustable response value current 6 or G-tripping / with 12t characteristic / initial value • for G-tripping / with 12t characteristic / Full-scale A 1 value • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 1 • for G-tripping / with standard chara	Main circuit				
• with AC / at 50/60 Hz / Rated value V 690 Operating current - - • at 40 °C / Rated value A 160 • at 50 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 Auxiliary circuit A 0 Number of NC contacts / for auxiliary contacts 0 Suitability Suitability 0 Suitability Suitability for use system protection Adjustable response value current • for G-tripping / with 12t characteristic / initial value • for G-tripping / with 12t characteristic / Full-scale A 1 • for G-tripping / with standard characteristic / A 0.2 <t< td=""><td></td><td>_</td><td></td></t<>		_			
• at 40 °C / Rated value A 160 • at 50 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 ////////////////////////////////////		V	690		
• at 40 °C / Rated value A 160 • at 50 °C / Rated value A 160 • at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 • at 70 °C / Rated value A 160 ////////////////////////////////////	Operating current				
• at 60 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 Auxiliary circuit A 160 Number of NC contacts / for auxiliary contacts 0 Number of NO contacts / for auxiliary contacts 0 Suitability 0 Suitability Suitability for use Suitability for use system protection Adjustable parameters A Adjustable response value current A • for G-tripping / with 12t characteristic / initial value A • for G-tripping / with standard characteristic / Full-scale value A • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 1		А	160		
• at 65 °C / Rated value A 160 • at 70 °C / Rated value A 160 Auxiliary circuit A 160 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 • for G-tripping / with 12t characteristic / Full-scale value A • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 1	● at 50 °C / Rated value	А	160		
• at 70 °C / Rated value A 160 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 0.2 Adjustable response value current 0.2 • for G-tripping / with 12t characteristic / initial value A 1 • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 0.2	• at 60 °C / Rated value	А	160		
Auxiliary circuit 0 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 I2t characteristic / initial value A 0.2 • for G-tripping / with I2t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.2 0	• at 65 °C / Rated value	А	160		
Auxiliary circuit 0 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 • for G-tripping / with l2t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.2 0	• 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 • 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 0.2					
Number of NO contacts / for auxiliary contacts 0 Suitability Suitability for use system protection Adjustable parameters system protection Adjustable response value current 0.2 • 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 standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard 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 1 • for G-tripping / with standard characteristic / initial value A 1		_	0		
Suitability System protection Adjustable parameters System protection Adjustable response value current 0.2 • for G-tripping / with 12t characteristic / initial value A 0.2 • for G-tripping / with 12t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / A 0.2 1	-				
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 standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / A 1 0.2			0		
Adjustable parameters Adjustable response value current A • for G-tripping / with I2t characteristic / initial value A 0.2 • for G-tripping / with I2t characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1					
Adjustable response value current A 0.2 • 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 standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / initial value A 0.2 • for G-tripping / with standard characteristic / initial value A 0.2	Suitability for use		system protection		
Adjustable response value current A 0.2 • 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 standard characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / Full-scale value A 1 • for G-tripping / with standard characteristic / initial value A 0.2 • for G-tripping / with standard characteristic / initial value A 0.2	Adjustable parameters				
value A 1 • for G-tripping / with l2t characteristic / Full-scale value A 0.2 • for G-tripping / with standard characteristic / initial value A 0.2 • for G-tripping / with standard characteristic / A 1					
value • for G-tripping / with standard characteristic / A 0.2 • for G-tripping / with standard characteristic / A 1		A	0.2		
 for G-tripping / with standard characteristic / A for G-tripping / with standard characteristic / A 1 		А	1		
	• for G-tripping / with standard characteristic /	A	0.2		
	 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 	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

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	3
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	3
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	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	

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)

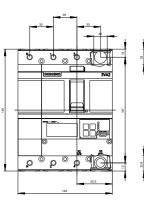
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA22165JQ420AA0

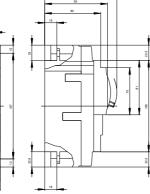
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA22165JQ420AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA22165JQ420AA0

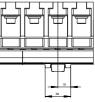
CAx-Online-Generator http://www.siemens.com/cax

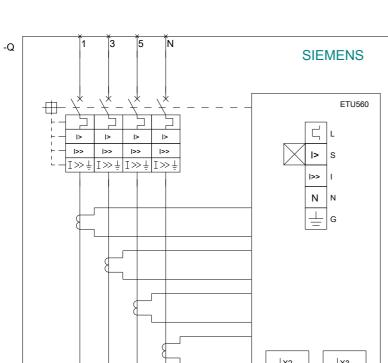
Tender specifications http://ausschreibungstexte.siemens.com/tiplv





0 0





-X2 EFB -X3 RCD last modified:

11.03.2015