## **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		
Protection class IP       IP40         Protection class IP on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       Switching capacity         Switching capacity       Electricity         Continuous current / Rated value / maximum       A         Active power loss       •         • maximum       W         Electricity       A         Continuous current / Rated value / maximum       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Main circuit       Operating outlage         • with AC / at 50% DH z / Rated value       A         Operating outlage       A         • with AC / at 50% DH z / Rated value       A         Operating outlage       A         • with AC / at 50% DH z / Rated value       A         • at 60 °C / Rated value       A<		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       Electricity         Continuous current / Rated value / maximum       A         Active power loss       •         • maximum       W         Electricity       A         Continuous current / Rated value / maximum       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Main circuit       Operating outlage         • with AC / at 50% DH z / Rated value       A         Operating outlage       A         • with AC / at 50% DH z / Rated value       A         Operating outlage       A         • with AC / at 50% DH z / Rated value       A         • at 60 °C / Rated value       A<			
Protection class IP / on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       L         Switching capacity class of the circuit breaker       L         Dissipation       L         Adive power loss       W         • maximum       W         Electricity       Continuous current / Rated value / maximum         Continuous current / Rated value / maximum       A         Adjustable response value current / of the instantaneous short-circuit release / initial value       A         Main circuit       Operating voltage       0         Operating voltage       IB00       A         • with AC / at 50/60 Hz / Rated value       V       690         Operating voltage       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 for use       system prot			IP40
Protective function of the overcurrent release     LSIG       Switching capacity     L       Dissipation     L       Active power loss     u       • maximum     W     19.7       Electricity     Continuous current / Rated value / maximum     A     160       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 outrent     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 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       • A     160 <td></td> <td></td> <td></td>			
Switching capacity         Switching capacity class of the circuit breaker       L         Dissipation         Active power loss       unaximum       W       19.7         Continuous current / Rated value / maximum       A       160         Continuous current / Rated value / maximum       A       160         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       vith AC / at 50/60 Hz / Rated value       V       690       690         Operating current       a       160       a       1.5         • with AC / at 50/60 Hz / Rated value       V       690       690         Operating current       a       160       a       160         • at 60 °C / Rated value       A       160       a       a       160         • at 60 °C / Rated value       A       160       a       a       160         • at 60 °C / Rated value       A       160       a       a       160         • at 60 °C / Rated value       A       160       a       a       10         • at 70 °C / Rated value       B       90       Number of NC contacts / for auxiliary contacts <td></td> <td></td> <td></td>			
Switching capacity class of the circuit breaker     L       Dissipation       Active power loss     • maximum       • maximum     W       19.7       Electricity       Continuous current / Rated value / maximum     A       160       Continuous current / Rated value / maximum     A       Adjustable response value current / of the instantaneous short-circuit release / initial value     A       Main circuit       Operating current       • with AC / at 50/80 Hz / Rated value     V       • Operating current     A       • at 40 °C / Rated value     A       • at 60 °C / Rated value     A       • at 65 °C / Rated value     A       • at 67 °C / Rated value     A       • at 70 °C / Rated value     A       • at 70 °C / Rated value     D       • at 70 °C / Rated value     D <td></td> <td></td> <td>2010</td>			2010
Dissipation         Active power loss       unit         • maximum       W       19.7         Electricity         Continuous current / Rated value       A       160         Continuous current / Rated value       A       160         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       V       690         Operating voltage       v       690         • with AC / at 50/60 Hz / Rated value       V       690         Operating outge       v       690         • at 40 °C / Rated value       A       160         • 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 67 °C / Rated value       A       160         • at 70 °C / Rated value       A       160         • at 70 °C / Rated value       D       Number of NC contacts / for auxillary contacts         Number of NC contacts / for auxillary contacts       0       Number of NC contacts / for auxillary contacts         Suitability       Suitability			
Active power loss     W     19.7       Electricity     Continuous current / Rated value / maximum     A     160       Continuous current / Rated value     A     160       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     15       Main circuit     Operating voltage     •     04000       • with AC / at 50/60 Hz / Rated value     V     690       Operating current     •     04000       • 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 67 °C / Rated value     A     160       • at 67 °C / Rated value     A     160       • at 67 °C / Rated value     A     160       • at 67 °C / Rated value     A     160       • at 67 °C / Rated value     A     160       • at 67 °C / Rated value     A     160       • at 67 °C / Rated value     A     160       • Sutability     Sutability     Sutability       Sutability     Sutability     Sutability       value	Switching capacity class of the circuit breaker		L
• maximum       W       19.7         Electricity       Continuous current / Rated value / maximum       A       160         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         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       A       160         • at 40 °C / 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         • bor Contacts / for auxillary contacts       0       O         Number of NC contacts / for auxillary contacts       0       O         Suitability       Suitability for use       system protection </td <td>Dissipation</td> <td></td> <td></td>	Dissipation		
Electricity       Continuous current / Reted value / maximum     A     160       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     A     160       Operating current     A     160       • with AC / at 50/60 Hz / Rated value     V     690       Operating current     A     160       • at 0 °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       • at 70 °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       • bo °C / Rated value     A     160       • bor O-Troping / with 12t characteristic / initial value     A     0.2	Active power loss		
Continuous current / Rated value / maximum       A       160         Continuous current / Rated value       A       160         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       A       160         Operating voltage       •       •       40         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       •       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 70 °C / Rated value       A       160         • at 70 °C / Rated value       A       160         • at 70 °C / Rated value       A       160         Suitability circuit       Mumber of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0       0         Suitability       Suitability       Suitability       Suitability         Suitability       Corectripping / with 12t characteristic / initial value       0       2	• maximum	W	19.7
Continuous current / Rated value / maximum       A       160         Continuous current / Rated value       A       160         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       A       160         Operating voltage       •       •       40         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       •       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 70 °C / Rated value       A       160         • at 70 °C / Rated value       A       160         • at 70 °C / Rated value       A       160         Suitability circuit       Mumber of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0       0         Suitability       Suitability       Suitability       Suitability         Suitability       Corectripping / with 12t characteristic / initial value       0       2		_	
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       •       with AC / at 50/60 Hz / Rated value       V       690         Operating current       •       •       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 00 °C / Rated value       A       160         • at 00 °C / Rated value       A       160         • at 00 °C / Rated value       A       160         • at 00 °C / Rated value       A       160         • at 00 °C / Rated value       A       100         Number of NC contacts / for auxiliary contacts       0         Suitability       Suitability for use       system protection         Adjustable response value current       •		A	160
Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       v       690         Operating voltage       v       690         Operating current       Image: Construct of the construc			
Instantaneous short-circuit release / initial value         Main circuit         Operating voltage       690         Operating current       690         eat 40 °C / Rated value       A       160         eat 50 °C / Rated value       A       160         eat 60 °C / Rated value       A       160         eat 60 °C / Rated value       A       160         eat 65 °C / Rated value       A       160         eat 70 °C / Rated value       A       160         eat 70 °C / Rated value       A       160         eat 70 °C / Rated value       A       160         Vumber of NC contacts / for auxiliary contacts       0       0         Number of NC contacts / for auxiliary contacts       0       0         Suitability       system protection       Adjustable parameters         Adjustable response value current       A       0.2         e for G-tripping / with 12t characteristic / initial value       A       1         e for G-tripping / with 12t characteristic / Full-scale value       A       1 <th< td=""><td></td><td></td><td></td></th<>			
Operating voltage       v       690         Operating current			
Operating voltage       v       690         Operating current       at 40 °C / Rated value       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         Auxiliary circuit       Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0       0         Suitability       Suitability       system protection         Adjustable parameters       Adjustable response value current       0.2         • 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 / A       0.2       1			
• with AC / at 50/60 Hz / Rated value       V       690         Operating current			
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 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       • at 70 °C / Rated value     A     160       Auxiliary 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       Adjustable response value current     • for G-tripping / with 12t characteristic / initial value     A     1       • for G-tripping / with standard characteristic / Full-scale     A     1       • for G-tripping / with standard characteristic / A     0.2		N/	200
at 40 °C / Rated valueA160• at 50 °C / Rated valueA160• at 60 °C / Rated valueA160• at 65 °C / Rated valueA160• at 65 °C / Rated valueA160• at 70 °C / Rated valueA160• at 70 °C / Rated valueA160Auxiliary circuitNumber of NC contacts / for auxiliary contacts0Number of NO contacts / for auxiliary contacts0SuitabilitySuitabilitySuitability for useSuitability or usesystem protectionAdjustable parametersA0.2• for G-tripping / with 12t characteristic / initial valueA1• for G-tripping / with standard characteristic / a0• for G-tripping / with standard characteristic / initial valueA0.2		V	690
• 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         Auxiliary circuit       A       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 12t characteristic / initial value       A       0.2         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / initial value       A       0.2			
• 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         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       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	• at 40 °C / Rated value		
• at 65 °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 NO contacts / for auxiliary contacts     0       Suitability     0       Suitability     Suitability for use       Adjustable parameters     system protection       Adjustable response value current     0.2       • for G-tripping / with l2t characteristic / initial value     A     1       • for G-tripping / with standard characteristic / Full-scale value     A     1	• at 50 °C / Rated value	A	
• at 70 °C / Rated value       A       160         Auxiliary circuit       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       0.2         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • 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       system protection         Adjustable parameters       4         Adjustable response value current       0.2         • 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	• at 65 °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	• 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		
Suitability     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     A     1       • for G-tripping / with standard characteristic / A     0.2			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 l2t characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       0.2	Number of NO contacts / for auxiliary contacts		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 l2t characteristic / Full-scale value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       0.2			
Adjustable parameters       Adjustable response value current     A       • for G-tripping / with l2t characteristic / initial value     A       • for G-tripping / with l2t characteristic / Full-scale     A       • for G-tripping / with l2t characteristic / Full-scale     A       • for G-tripping / with standard characteristic / Full-scale     A       • for G-tripping / with standard characteristic / Full-scale     A			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       0.2	-		
<ul> <li>for G-tripping / with 12t characteristic / initial value</li> <li>for G-tripping / with 12t characteristic / Full-scale value</li> <li>for G-tripping / with standard characteristic / A</li> <li>for G-tripping / with standard characteristic / A</li> </ul>			
value <ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> <li>for G-tripping / with standard characteristic / A</li> <li>for G-tripping / with standard characteristic / A</li> </ul>			
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	<ul> <li>for G-tripping / with standard characteristic / Full-scale value</li> </ul>	А	1

<ul> <li>of I-trip / Full-scale value</li> </ul>	А	12
<ul> <li>of the short-time delayed short-circuit release / initial value</li> </ul>	A	0.6
<ul> <li>of the short-time delayed short-circuit release / Full-scale value</li> </ul>	A	10
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	A	0.6
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	А	10
Adjustable delay time	-	
<ul> <li>for G-tripping / with I2t characteristic / initial value</li> </ul>	S	0.05
<ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> </ul>	S	0.8
<ul> <li>of S-trip / with I2t characteristic / initial value</li> </ul>	s	0.05
<ul> <li>of S-trip / with I2t characteristic / Full-scale value</li> </ul>	S	0.5
<ul> <li>of S-trip / with standard characteristic / initial value</li> </ul>	S	0.05
<ul> <li>of S-trip / with standard characteristic / Full- scale value</li> </ul>	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
<ul> <li>undervoltage release</li> </ul>		No
Product property	_	
<ul> <li>of the circuit breaker with tripping unit / Tripping characteristic adjustable</li> </ul>		Yes
<ul> <li>for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof</li> </ul>		No
Product expansion / optional / motor drive		Yes
Product function		
Product function		
<ul> <li>Intrinsic device protection</li> </ul>		Yes
<ul> <li>communication function</li> </ul>		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	
<ul> <li>for flat-bar terminal connection / minimum</li> </ul>	13 x 1 mm
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>	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			
<ul> <li>during operation / minimum</li> </ul>	°C	-25	
<ul> <li>during operation / maximum</li> </ul>	°C	70	
<ul> <li>during storage / minimum</li> </ul>	°C	-40	
<ul> <li>during storage / maximum</li> </ul>	°C	80	

Certificates						
Equipment mark	ting					
<ul> <li>acc. to DIN</li> </ul>	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
GL	

GL

## Further information

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

Industry Mall (Online ordering system)

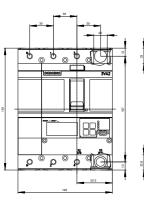
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA21168JQ420AA0

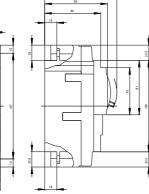
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA21168JQ420AA0/all

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

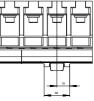
CAx-Online-Generator http://www.siemens.com/cax

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

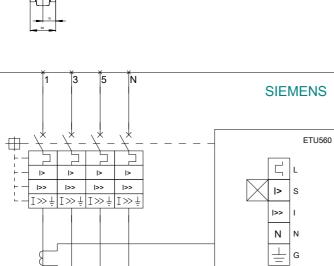




0 0



-Q





-X3 RCD

-X2 EFB

last modified:

11.03.2015