# **SIEMENS**

### Data sheet

## 3VA2450-6JQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4-POLE, LINE PROTECTION ETU560, LSIG, IN=500A OVERLOAD PROTECTION IR=200A ...500A SHORT CIRCUIT PROTECTION ISD=0,6..10X IN, II=1,5..14X IN NEUTRAL PROTECTION ADJUSTABLE (OFF, UPTO 100%) GROUND-FAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,05-0,8MS BUSBAR CONNECTION

Figure similar

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		20	
Electrical endurance (switching cycles)			
● at AC-1 / at 380/415 V / at 50/60 Hz		4 000	
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		15 000	

Insulation voltage / Rated value     V     800       Protection class IP     IP40       Protection class IP / on the front     IP40       Switching capacity     Switching capacity       Switching capacity     IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	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 class of the circuit breaker       H         Dissipation       Active power loss         • 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       •       4         • at 60 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 70 °C / Rated value       A       400         Auxiliary circuit       Number of NC contacts / for auxiliary contacts       0         Number of NC contacts / for auxiliary contacts       0       0         Suitability for use       system protection       Adjustable parameters		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 class of the circuit breaker       H         Dissipation       Active power loss         • 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       •       4         • at 60 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 70 °C / Rated value       A       400         Auxiliary circuit       Number of NC contacts / for auxiliary contacts       0         Number of NC contacts / for auxiliary contacts       0       0         Suitability for use       system protection       Adjustable parameters	Protection class		
Protection class IP / on the front       IP40         Protective function of the overcurrent release       LSIG         Switching capacity       Switching capacity class of the circuit breaker       H         Dissipation       Active power loss       H         Continuous current / Rated value / maximum       A       630         Continuous current / Rated value / maximum       A       630         Continuous current / Rated value / maximum       A       630         Continuous current / Rated value       A       500         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       •       •       690         • with AC / at 50/60 Hz / Rated value       V       690       690       •         Operating voltage       •       with AC / at 50/60 Hz / Rated value       A       500       •       •         • at 60 °C / Rated value       A       4500       •       •       460       •       •         • at 60 °C / Rated value       A       440       A       •       •       •       •       •       •       •       •       •       •       •       •       •       •       •			IP40
Switching capacity       Switching capacity class of the circuit breaker     H       Dissipation     Active power loss       • maximum     W       Continuous current / Rated value / maximum     A       630     Continuous current / Rated value / maximum       Adjustable response value current / Rated value     A       Source continuous current / Rated value     A       Main circuit     A       Operating voltage     •       • with AC / at 50/60 Hz / Rated value     V       Operating current     -       • at 40 °C / Rated value     A       • at 40 °C / Rated value     A       • at 60 °C / Rated value     A       • at 70 °C / Rated value     A       • A     440       • A     A       Number of NC contacts / for auxiliary contacts     0       Number of NC contacts / for auxiliary contacts     0       Suitability     Suitability for use     system pro			IP40
Switching capacity class of the circuit breaker     H       Dissipation       Active power loss     Imaximum       Imaximum     W     105       Electricity     Continuous current / Rated value / maximum     A     630       Continuous current / Rated value     A     500       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       Operating voltage     e with AC / at 50/60 Hz / Rated value     V     690       Operating voltage     e with AC / at 50/60 Hz / Rated value     V     690       Operating voltage     e with AC / at 50/60 Hz / Rated value     A     500       e at 40 °C / Rated value     A     500     e at 50 °C / Rated value     A     475       e at 60 °C / Rated value     A     440     A     400       e at 70 °C / Rated value     A     440     A       Number of NC contacts / for auxiliary contacts     0       Number of NC contacts / for auxiliary contacts     0       Suitability     Suitability for use     system protection       Adjustable parameters     A     0.2       value     • for G-tripping / with 2t characteristic / initial value     A     1<	Protective function of the overcurrent release		LSIG
Switching capacity class of the circuit breaker     H       Dissipation       Active power loss     Imaximum       Imaximum     W     105       Electricity     Continuous current / Rated value / maximum     A     630       Continuous current / Rated value     A     500       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       Operating voltage     e with AC / at 50/60 Hz / Rated value     V     690       Operating voltage     e with AC / at 50/60 Hz / Rated value     V     690       Operating voltage     e with AC / at 50/60 Hz / Rated value     A     500       e at 40 °C / Rated value     A     500     e at 50 °C / Rated value     A     475       e at 60 °C / Rated value     A     440     A     400       e at 70 °C / Rated value     A     440     A       Number of NC contacts / for auxiliary contacts     0       Number of NC contacts / for auxiliary contacts     0       Suitability     Suitability for use     system protection       Adjustable parameters     A     0.2       value     • for G-tripping / with 2t characteristic / initial value     A     1<		_	
Dissipation         Active power loss       waximum       W       105         Electricity       Continuous current / Rated value       A       630         Continuous current / Rated value       A       500         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         • at 40 °C / Rated value       V       690         Operating voltage       v       690         • at 40 °C / Rated value       A       500         • at 60 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • bit 70 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • bit 70 °C / Rated value       A       410         Suitability       Suitability       Suitability       Suitability			
Active power loss     W     105       Electricity     Continuous current / Rated value / maximum     A     630       Continuous current / Rated value     A     500       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       • with AC / at 50/60 Hz / Rated value     V     690       Operating current     a     500       • at 40 °C / Rated value     A     500       • at 65 °C / Rated value     A     460       • at 65 °C / Rated value     A     440       Auxiliary circuit     Mumber of NC contacts / for auxiliary contacts     0       Number of NC contacts / for auxiliary contacts     0     0       Suitability     Suitability     Suitability       Suitability     Suitability     A     0.2       Adjustable presponse value current     A     0.2       • for G-tripping / with 12t characteristic / Initial value     A     1       • for G-tripping / with standard characteristic / A     0.2     1			Π
• maximum     W     105       Electricity     Continuous current / Rated value / maximum     A     630       Continuous current / Rated value     A     500       Adjustable response value current / of the instantaneous short-circuit release / initial value     A     1.5       Mein circuit     A     500       Operating voltage     •     690       • at 40 °C / Rated value     V     690       Operating current     6     500       • at 40 °C / Rated value     A     500       • at 60 °C / Rated value     A     460       • at 60 °C / Rated value     A     460       • at 60 °C / Rated value     A     440       Auxiliary circuit     Xumber of NC contacts / for auxiliary contacts     0       Number of NC contacts / for auxiliary contacts     0       Suitability     Suitability for use     system protection       Adjustable response value current     0     2       • for G-tripping / with 12t characteristic / initial value     A     0.2       • for G-tripping / with standard characteristic / and it     A     0.2       • for G-tripping / with standard characteristic /     A     1			
Electricity       A       630         Continuous current / Rated value       A       500         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       500         • at 40 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 65 °C / Rated value       A       460         • at 65 °C / Rated value       A       440         Auxiliary circuit       Number of NC contacts / for auxiliary contacts       0         Number of NC contacts / for auxiliary contacts       0       0         Suitability       Suitability for use       system protection         Adjustable response value current       • for G-tripping / with 12t characteristic / initial value       0         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       1	Active power loss		
Continuous current / Rated value / maximum       A       630         Continuous current / Rated value       A       500         Adjustable response value current / of the       A       1.5         Instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       0         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       -       630         • at 40 °C / Rated value       A       500         • at 60 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 65 °C / Rated value       A       440         Auxiliary circuit       Mumber 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         • for G-tripping / with 12t characteristic / Full-scale       A       1         • for G-tripping / with 12t characteristic / Full-scale       A       1         • for G-tripping / with standard characteristic /       A       0.2         • for G-tripping / with standard characteristic /       A	• maximum	W	105
Continuous current / Rated value       A       500         Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Coperating voltage       1.5         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       690         • at 40 °C / Rated value       A       500         • at 60 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 60 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit       Number of NC contacts / for auxillary contacts       0         Number of NO contacts / for auxillary contacts       0       0         Suitability       Suitability       system protection         Adjustable parameters       A       1         Adjustable response value current       A       1         • for 6-tripping / with 12t characteristic / initial value       A       1         • for 6-tripping / with 12t characteristic / Full-scale value       A       1         • for 6-tripping / with standard characteristic /       A       1         • for 6-tripping / with standard characteristic /       A	Electricity		
Adjustable response value current / of the instantaneous short-circuit release / initial value       A       1.5         Main circuit       Operating voltage       •         • with AC / at 50/60 Hz / Rated value       V       690         Operating current       -       690         • at 40 °C / Rated value       A       500         • at 50 °C / Rated value       A       500         • at 60 °C / Rated value       A       460         • at 65 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit       Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0       0         Suitability       system protection       Adjustable parameters         Adjustable parameters       A       1         value       • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with 12t characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       1 </td <td>Continuous current / Rated value / maximum</td> <td>А</td> <td>630</td>	Continuous current / Rated value / maximum	А	630
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         • at 60 °C / Rated value       A         • at 60 °C / Rated value       A         • at 60 °C / Rated value       A         • at 65 °C / Rated value       A         • at 65 °C / Rated value       A         • at 70 °C / Rated value       A         • Do Contacts / for auxiliary contacts       0         Number of NC contacts / for auxiliary contacts       0         Suitability       Suitability for use       system protection         Adjustable parameters       A         Adjustable response value current       A       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       <	Continuous current / Rated value	А	500
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       500         • at 40 °C / Rated value       A       500         • at 50 °C / Rated value       A       500         • at 60 °C / Rated value       A       475         • at 60 °C / Rated value       A       460         • at 65 °C / Rated value       A       440         Auxiliary circuit       A       440         Auxiliary circuit       A       440         Auxiliary circuit       A       400         Auxiliary circuit       A       440         Auxiliary circuit       0       0         Number of NC contacts / for auxiliary contacts       0         Suitability       5       0         Suitability for use       system protection         Adjustable parameters       4       0.2         value       • for G-tripping / with 12t characteristic / initial value       A       0.2         • for G-tripping / with standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2       0.2	instantaneous short-circuit release / initial value		
• with AC / at 50/60 Hz / Rated value       V       690         Operating current       -       -         • at 40 °C / Rated value       A       500         • at 50 °C / Rated value       A       400         • at 60 °C / Rated value       A       460         • at 65 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit       A       400         Auxiliary circuit       0       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       0         Adjustable response value current       A         • 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         • initial value       A       1	Main circuit		
Operating current       A       500         • at 40 °C / Rated value       A       500         • at 50 °C / Rated value       A       500         • at 60 °C / Rated value       A       475         • at 65 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit       A       440         Auxiliary circuit       B       0         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       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 value       A       1         • for G-tripping / with standard characteristic / A       0.2       0	Operating voltage		
at 40 °C / Rated value       A       500         at 50 °C / Rated value       A       500         • at 60 °C / Rated value       A       475         • at 65 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit       A       440         Auxiliary circuit       B       0         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability for use         Suitability for use       system protection         Adjustable response value current       0         • 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 / 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	<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
• at 50 °C / Rated value       A       500         • at 60 °C / Rated value       A       475         • at 65 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability for use         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 standard characteristic / Full-scale value       A       1         • for G-tripping / with standard characteristic / A       0.2	Operating current		
• at 60 °C / Rated value       A       475         • at 65 °C / Rated value       A       460         • at 70 °C / Rated value       A       440         Auxiliary circuit         Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       Suitability         Suitability for use         Suitability or 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	• at 40 °C / Rated value	А	500
A at 65 °C / Rated value         A         460           • at 65 °C / Rated value         A         460           • at 70 °C / Rated value         A         440           Auxiliary circuit         0           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         0.2           • for G-tripping / with 12t characteristic / initial value         A         1           • for G-tripping / with standard characteristic / initial value         A         1	● at 50 °C / Rated value	А	500
• at 70 °C / Rated value       A       440         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       0.2         Adjustable response value current       0         • for G-tripping / with l2t characteristic / initial value       A       1         • for G-tripping / with standard characteristic / initial value       A       0.2         • for G-tripping / with standard characteristic / A       1       1	• at 60 °C / Rated value	А	475
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         • for G-tripping / with l2t characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.2         • for G-tripping / with standard characteristic / A       0.2	• at 65 °C / Rated value	А	460
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         • for G-tripping / with 12t characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.2	• at 70 °C / Rated value	А	440
Number of NC contacts / for auxiliary contacts       0         Number of NO contacts / for auxiliary contacts       0         Suitability       0         Suitability       system protection         Adjustable parameters       Adjustable parameters         Adjustable response value current       0         • 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	Auxiliary circuit		
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     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 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       0.2       1	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         • 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 / Full-scale value       A         • for G-tripping / with standard characteristic / A       0.2         • for G-tripping / with standard characteristic / A       0.2	Suitability		
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       1			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       1	Adjustable parameters		
<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> <li>for G-tripping / with standard characteristic / A</li> </ul>			
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 / initial value     A     1		А	0.2
<ul> <li>value</li> <li>for G-tripping / with standard characteristic / initial value</li> <li>for G-tripping / with standard characteristic / A 1</li> </ul>			
<ul> <li>for G-tripping / with standard characteristic / A</li> <li>for G-tripping / with standard characteristic / A</li> <li>1</li> </ul>	<ul> <li>for G-tripping / with I2t characteristic / Full-scale</li> </ul>	А	1
<ul> <li>initial value</li> <li>for G-tripping / with standard characteristic / A 1</li> </ul>	value		
		A	0.2
Full-scale value	<ul> <li>for G-tripping / with standard characteristic / Full-scale value</li> </ul>	A	1

<ul> <li>of I-trip / Full-scale value</li> </ul>	А	13
<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>	A	10
• for N-conductor protection / initial value	А	0.2
• for N-conductor protection / Full-scale value	А	1
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
• of S-trip / with I2t characteristic / initial value	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>		No
<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
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		No

Accessories		
Manufacturer article number / of the supplied basic		3VA2450-6JQ42-0AA0
switch		
Short circuit		
Operational short-circuit current breaking capacity		
(Ics)		
• at 240 V / Rated value	kA	110
• at 415 V / Rated value	kA	85
• at 690 V / Rated value	kA	6
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	110
• at 415 V / Rated value	kA	85
• at 690 V / Rated value	kA	6
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	242
• at 415 V / Rated value	kA	187
• at 690 V / Rated value	kA	9
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>		20 x 1
<ul> <li>for flat-bar terminal connection / maximum</li> </ul>		35 x 10
Type of electrical connection / for main current circuit		Lug terminal
lechanical Design	_	
Height	mm	248
Width	mm	184
Depth	mm	137
Mounting type		fixed mounting
nvironmental 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
• during storage / maximum	°C	80
Certificates		
Equipment marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Proc	luct Approval	EMC	Declaration of Conformity	other
UDE VDE	EHC	other	EG-Konf.	other

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/3VA24506JQ420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA24506JQ420AA0/all

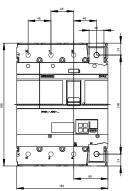
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA24506JQ420AA0

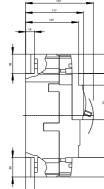
#### **CAx-Online-Generator**

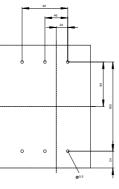
http://www.siemens.com/cax

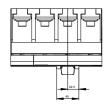
#### **Tender specifications**

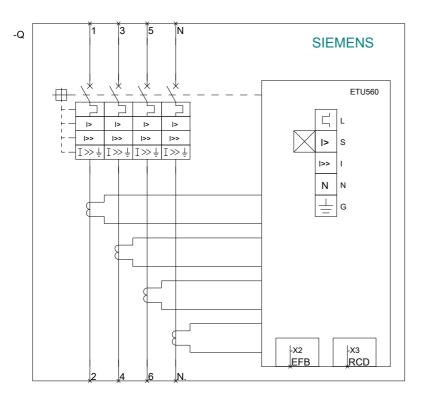
http://ausschreibungstexte.siemens.com/tiplv











last modified:

11.03.2015