## **SIEMENS**

## Data sheet

## 3VA2450-6KQ42-0AA0



CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS H ICU=85KA @ 415 V 4-POLE, LINE PROTECTION ETU860, 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		ETU860	
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	S	0.05	
standard characteristic / initial value			
Total disconnection time / for G-tripping / with	S	0.8	
standard characteristic / Full-scale value			
circuit-breaker / Design		3VA	
Mechanical service life (switching cycles) / typical		15 000	

Voltage		
Insulation voltage / Rated value	V	800
Desta diana da an		
Protection class Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		LSIG
		2010
Switching capacity		
Switching capacity class of the circuit breaker		н
Dissipation		
Active power loss		
• maximum	W	105
	_	
Electricity 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		
Main circuit	_	
Operating voltage	V	690
with AC / at 50/60 Hz / Rated value	V	090
Operating current	٨	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		
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		
	٨	0.2
<ul> <li>for G-tripping / with I2t characteristic / initial value</li> </ul>	A	0.2
	А	1
<ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> </ul>		
<ul> <li>for G-tripping / with standard characteristic /</li> </ul>	А	0.2
initial value		
• for G-tripping / with standard characteristic /	А	1
Full-scale value		

<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>	А	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
• communication function		Yes
<ul> <li>Phase failure detection</li> </ul>		No
<ul> <li>other measurement function</li> </ul>		Yes

ccessories			
Manufacturer article number / of the supplied basic		<u>3VA2450-6KQ42-0AA0</u>	
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	
<ul> <li>during storage / maximum</li> </ul>	°C	80	
Certificates			
Equipment marking			
• acc. to DIN EN 61346-2		Q	
• acc. to DIN EN 81346-2		Q	

General Prod	uct Approval	EMC	Declaration of Conformity	other
	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/3VA24506KQ420AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA24506KQ420AA0/all

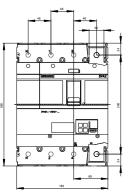
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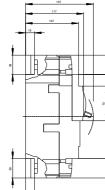
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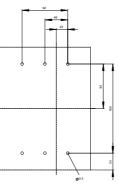
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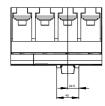
## **Tender specifications**

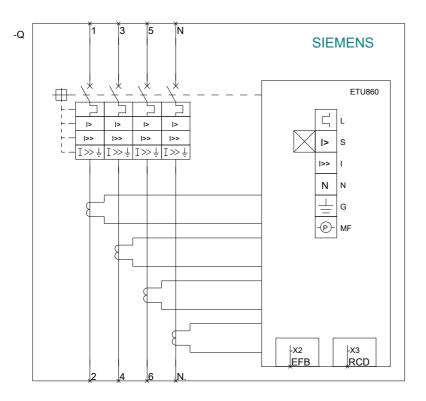
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