## **SIEMENS**

## Data sheet

3VA2450-7MS32-0AA0

CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS C ICU=110KA @ 415 V 3-POLE, MOTOR STARTER PROTECTIO ETU310M, AM, IN=500A WITHOUT OVERLOAD PROTECTION SHORT CIRCUIT PROTECTION II=6...15 X IN **BUSBAR CONNECTION** 

Model		
product brand name		SENTRON
Product designation		Molded case circuit breaker
Design of the product		Starter protection
Product variations		Selective Applications
Ground fault monitoring version		Without
Design of the operating mechanism		toggle handle
Type of the driving mechanism / motor drive		No
Design of the overcurrent release		ETU310M
_		
General technical data		
Number of poles		3
Total disconnection time / for G-tripping / with	S	0
standard characteristic / initial value		0
Total disconnection time / for G-tripping / with standard characteristic / Full-scale value	S	0
Mechanical service life (switching cycles) / typical		15 000
inostrariosi con vico ino (ovinorini g oyoloo) / typical		10 000
Voltage		
Insulation voltage / Rated value	V	800
Protection class		
Protection class IP		IP40
Protection class IP / on the front		IP40
Protective function of the overcurrent release		1
0.771		
Switching capacity Switching capacity class of the circuit breaker		C
Switching capacity class of the circuit breaker		С
Dissipation		
Active power loss		
• maximum	W	120
Floatricity		
Electricity  Continuous current / Rated value / maximum	Α	630
Continuous current / Rated value	A	500
Continuous current / Nateu value	^	500

Adjustable response value current / of the	Α	0
instantaneous short-circuit release / initial value		
Main circuit		
Operating power / at AC-3		
• at 400 V / Rated value	W	200
Operating voltage		
<ul> <li>with AC / at 50/60 Hz / Rated value</li> </ul>	V	690
Operating current		
• at 40 °C / Rated value	Α	500
• at 50 °C / Rated value	Α	500
• at 60 °C / Rated value	Α	475
• at 65 °C / Rated value	Α	460
• at 70 °C / Rated value	Α	440
Auxiliary circuit		
Number of NC contacts / for auxiliary contacts		0
Number of NO contacts / for auxiliary contacts		0
Suitability		
Suitability for use		Starter protection
Adjustable parameters		
Adjustable response value current		
• for G-tripping / with I2t characteristic / initial	Α	0
value		
<ul> <li>for G-tripping / with I2t characteristic / Full-scale value</li> </ul>	Α	0
• of I-trip / Full-scale value	Α	0
<ul> <li>of the short-time delayed short-circuit release / initial value</li> </ul>	Α	0
<ul> <li>of the short-time delayed short-circuit release / Full-scale value</li> </ul>	Α	0
• of the L-trip / with l4t characteristic / initial value	Α	0
<ul> <li>of the L-trip / with l4t characteristic / Full-scale value</li> </ul>	Α	0
Adjustable delay time		
for G-tripping / with I2t characteristic / initial value	s	0
• for G-tripping / with I2t characteristic / Full-scale value	s	0
of S-trip / with I2t characteristic / initial value	s	0
of S-trip / with I2t characteristic / Full-scale value	s	0
• of S-trip / with standard characteristic / initial value	s	0

• of S-trip / with standard characteristic / Full-	S	0
scale value		
Product details		
Product component		
Trip indicator		No
● display		No
<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		No
Phase failure detection		No
<ul> <li>other measurement function</li> </ul>		No
Short circuit		
Operational short-circuit current breaking capacity		
(lcs)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	25
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	150
• at 415 V / Rated value	kA	110
• at 440 V / Rated value	kA	110
• at 500 V / Rated value	kA	85
• at 690 V / Rated value	kA	25
Short-circuit current making capacity (Icm)	_	
• at 240 V / Rated value	kA	330
• at 415 V / Rated value	kA	242
• at 440 V / Rated value	kA	242
• at 500 V / Rated value	kA	187
• at 690 V / Rated value	kA	52.5
Connections		

Arrangement of electrical connectors / for main current circuit	Fro	ont terminal
Type of connectable conductor cross-section		
• for flat-bar terminal connection / minimum	20	x 1
• for flat-bar terminal connection / maximum	35	x 10
Type of electrical connection / for main current circuit	Lu	g terminal

Mechanical Design		
Height	mm	248
Width	mm	138
Depth	mm	110
Mounting type		fixed mounting
Net weight	g	4 300

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 marking	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q

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/3VA24507MS320AA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3VA24507MS320AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3VA24507MS320AA0

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://ausschreibungstexte.siemens.com/tiplv

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