SIEMENS

Data sheet 3VA2450-5KQ32-0AA0

Figure similar

CIRCUIT BREAKER 3VA2 IEC FRAME 630 BREAKING CAPACITY CLASS M ICU=55KA @ 415 V 3-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 OPTIONAL WITH EXT. CT;UPTO 160% GROUND-FAULT, SWITCHABLE IG=0,2... 1 X IN, TG=0,05-0,8MS 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-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		3
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

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		LSIG
Switching capacity		
Switching capacity class of the circuit breaker		M
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 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		
• 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		
• 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 / initial value	A	0.2
• for G-tripping / with standard characteristic / Full-scale value	A	1

• of I-trip / Full-scale value	A	13
• 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
• for N-conductor protection / initial value	A	0.2
• for N-conductor protection / Full-scale value	A	2
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-dependent overload release / initial value	A	0.4

Product details

Product component		
• Trip indicator		No
• display		Yes
• undervoltage release		No
Product property		
• of the circuit breaker with tripping unit / Tripping characteristic adjustable		No
• for neutral conductors / upgradeable/retrofittable / Short-circuit and overload proof		Yes
Product expansion / optional / motor drive		Yes

Product function

Product function		
• Intrinsic device protection		Yes
• communication function		Yes
• Phase failure detection		No
• other measurement function		Yes

Accessories		
Manufacturer article number / of the supplied basic switch		3VA2450-5KQ32-0AA0

Short circuit		
Operational short-circuit current breaking capacity (Ics)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 690 V / Rated value	kA	6
Maximum short-circuit current breaking capacity (Icu)		
• at 240 V / Rated value	kA	85
• at 415 V / Rated value	kA	55
• at 690 V / Rated value	kA	6
Short-circuit current making capacity (Icm)		
• at 240 V / Rated value	kA	187
• at 415 V / Rated value	kA	121
• at 690 V / Rated value	kA	9

Connections		
Arrangement of electrical connectors / for main current circuit		Front 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		Lug terminal

Mechanical Design		
Height	mm	248
Width	mm	138
Depth	mm	137
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 marking		
• acc. to DIN EN 61346-2		Q
• acc. to DIN EN 81346-2		Q

General Product Approval		EMC	Declaration of Conformity	other
VDE	EAC	other	EG-Konf.	other

Further information

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

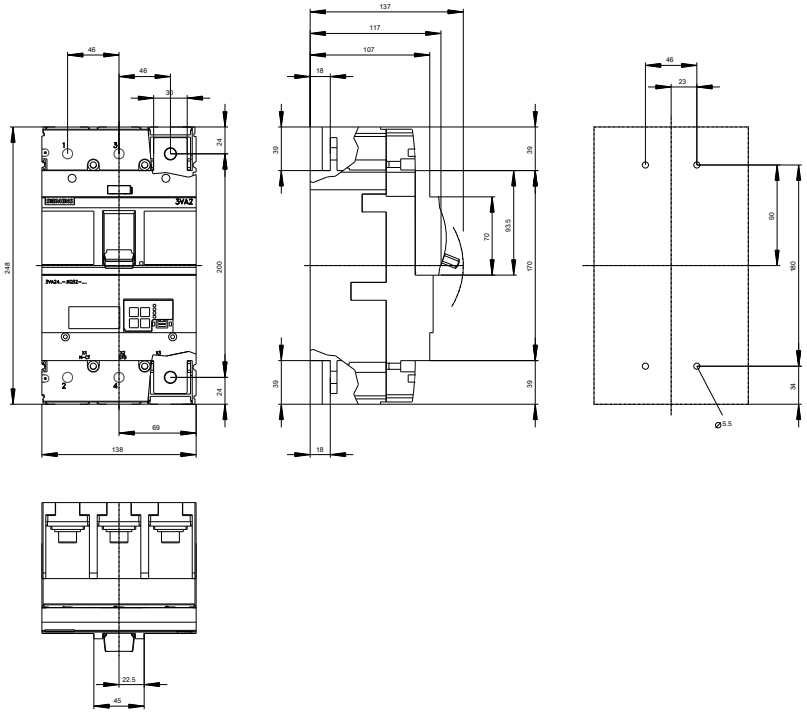
Industry Mall (Online ordering system)
https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3VA24505KQ320AA0

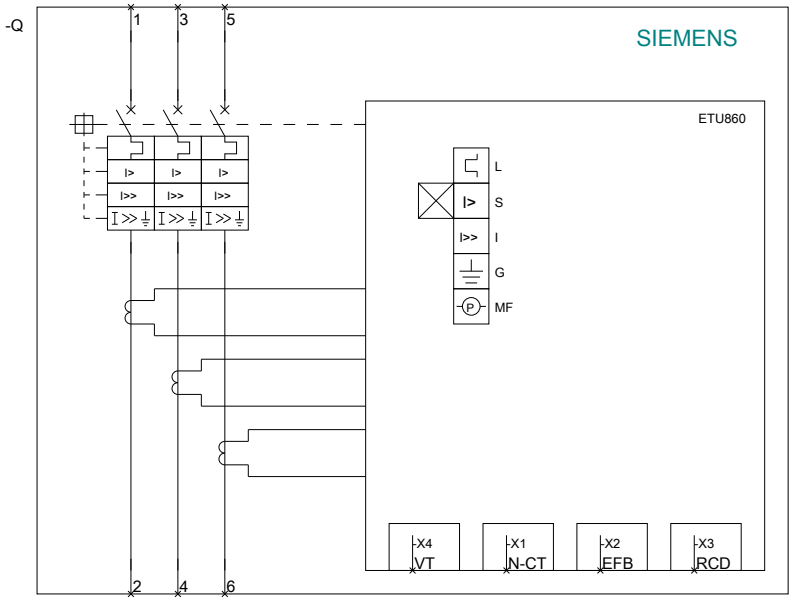
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3VA24505KQ320AA0/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA24505KQ320AA0

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

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





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