SIEMENS

Data sheet

3RV2411-4AA10-0BA0



SPECIAL TYPE CIRCUIT BREAKER SIZE S00, FOR TRANSFORMER PROTECTION A-RELEASE 10...16A, SHORT-CIRCUIT RELEASE 286A, SCREW TERMINAL, STANDARD SWITCHING CAPACITY AMBIENT TEMPERATURE -50 DEGREES C 500 SWITCHING CYCLES

Figure similar

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

W	7
V	690
	25g / 11 ms
kV	6
	500
	500
	100 000
°C	-20 +60
	IP20
	IP20
	Q
	V

Main circuit:			
Number of poles for main current circuit		3	
Adjustable response value current of the current- dependent overload release	Α	10 16	
Operating voltage			

Rated value	V	690
at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	16
Operating current		
• at AC-3		
— at 400 V Rated value	Α	16
Operating power		
• at AC-3		
— at 230 V Rated value	W	4 000
— at 400 V Rated value	W	7 500
— at 500 V Rated value	W	7 500
— at 690 V Rated value	W	11 000
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		0
Number of NO contacts		
for auxiliary contacts		0
Number of CO contacts		
for auxiliary contacts		0
Product expansion Auxiliary switch		Yes
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
Operational short-circuit current breaking capacity (Ics) with AC		
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	30
● at 500 V Rated value	kA	5
• at 690 V Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)		
• with AC at 240 V Rated value	kA	100
• with AC at 400 V Rated value	kA	55
• with AC at 500 V Rated value	kA	10
• with AC at 690 V Rated value	kA	4
Breaking capacity short-circuit current (Icn)		
with 1 current path for DC at 150 V Rated value	kA	10
 with 2 current paths in series for DC at 300 V Rated value 	kA	10

• with 3 current paths in series for DC at 450 V Rated value	kA	10
Response value current of the instantaneous short- circuit release	Α	286
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	16
● at 600 V Rated value	Α	16
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	1
 for single-phase AC motor at 230 V Rated value 	metric hp	2
 for three-phase AC motor at 200/208 V Rated value 	metric hp	3
 for three-phase AC motor at 220/230 V Rated value 	metric hp	5
• for three-phase AC motor at 460/480 V Rated	metric	10
value	hp	
Short-circuit:		
Product function Short circuit protection		Yes
Design of the short-circuit trip		magnetic
Design of the fuse link for IT network for short-circuit		
protection of the main circuit		
● at 240 V		gL/gG 80 A
● at 400 V		gL/gG 63 A
● at 500 V		gL/gG 50 A
● at 690 V		gL/gG 40 A
Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	97
Width	mm	45
Depth	mm	96
Required spacing		
 with side-by-side mounting 		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	0

• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— at the side	mm	30
— downwards	mm	50
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50
— downwards	mm	50
— at the side	mm	30

Connections/ Terminals:		
Type of electrical connection		
for main current circuit		screw-type terminals
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
 removable terminal for auxiliary and control circuit 		No
Type of connectable conductor cross-section		
• for main contacts		
— single or multi-stranded		2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for main contacts 		2x (18 14), 2x 12
Tightening torque		
 for main contacts with screw-type terminals 	N·m	0.8 1.2
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
• for main contacts		M3

Safety related data:		
B10 value with high demand rate acc. to SN 31920		50 000
Proportion of dangerous failures		
 with low demand rate acc. to SN 31920 	%	40
 with high demand rate acc. to SN 31920 	%	40
Failure rate [FIT] with low demand rate acc. to SN 31920	FIT	50
T1 value for proof test interval or service life acc. to IEC 61508	У	10
Protection against electrical shock		finger-safe

Mechanical data:

Size of the circuit-breaker		S00
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-50 + 60
during storage	°C	-50 + 80
during transport	°C	-50 + 80
Relative humidity during operation	%	10 95

Display:

Display version

• for switching status

Handle

Certificates/ approvals:

General	Test Certificates		Shipping App	proval	
Product					
Approval					
EHC	Type Test Certificates/Test Report	Special Test Certificate	ADC	B U R E A U	J. Å DNV



other

ABS



GL

LRS



Environmental Confirmations

Confirmation

BUREAU



other

other

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV24114AA100BA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV24114AA100BA0/all



