SIEMENS

Data sheet

3RV2411-1EA15



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 2.8...4A, N-RELEASE 82A, SCREW CONNECTION, STANDARD SW. CAPACITY W. TRANSVERSE AUX. SWITCH 1NO+1NC

275					
product brand name		SIRIUS			
Product designation		3RV2 circuit breaker			
General technical data:					
Active power loss total typical	W	6			
Insulation voltage	_				
 with degree of pollution 3 Rated value 	V	690			
Shock resistance					
• acc. to IEC 60068-2-27		25g / 11 ms			
Surge voltage resistance Rated value	kV	6			
Mechanical service life (switching cycles)					
 of the main contacts typical 		100 000			
 of the auxiliary contacts typical 		100 000			
Electrical endurance (switching cycles)					
• typical		100 000			
Temperature compensation	°C	-20 +60			
Protection class IP					
• on the front		IP20			
• of the terminal		IP20			
Equipment marking					
• acc. to DIN EN 81346-2		Q			
Main circuit:					
Number of poles for main current circuit		3			

Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current- dependent overload release	A	2.8 4
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	А	4
Operating current		
• at AC-3		
— at 400 V Rated value	А	4
Operating power		
• at AC-3		
— at 230 V Rated value	W	750
— at 400 V Rated value	W	1 500
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	3 000
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
 for auxiliary contacts 		1
Number of NO contacts		
 for auxiliary contacts 		1
Number of CO contacts		
 for auxiliary contacts 		0
Product expansion Auxiliary switch		Yes
Design of the auxiliary switch		transverse
Operating current of the auxiliary contacts at AC-15		
• at 24 V	А	2
● at 120 V	А	0.5
● at 125 V	А	0.5
• at 230 V	А	0.5
Operating current of the auxiliary contacts at DC-13		
• at 24 V	А	1
● at 60 V	А	0.15
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	100
• at 500 V Rated value	kA	100
• at 690 V Rated value	kA	4

Maximum short-circuit current breaking capacity (Icu)		
 with AC at 240 V Rated value 	kA	100
 with AC at 400 V Rated value 	kA	100
 with AC at 500 V Rated value 	kA	100
 with AC at 690 V Rated value 	kA	6
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	A	82
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	A	4
• at 600 V Rated value	A	4
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.125
 for single-phase AC motor at 230 V Rated value 	metric hp	0.333
 for three-phase AC motor at 200/208 V Rated value 	metric hp	0.75
 for three-phase AC motor at 220/230 V Rated value 	metric hp	0.75
 for three-phase AC motor at 460/480 V Rated value 	metric hp	2
 for three-phase AC motor at 575/600 V Rated value 	metric hp	3
Contact rating of the auxiliary contacts acc. to UL		C300 / R300
Short-circuit:		
Product function Short circuit protection	_	Yes
Design of the short-circuit trip		magnetic
Design of the fuse link		
 for short-circuit protection of the auxiliary switch required 		Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current Ik < 400 A)
Design of the fuse link for IT network for short-circuit protection of the main circuit		
• at 400 V		gL/gG 32 A
• at 500 V		gL/gG 32 A
• at 690 V		gL/gG 25 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
 for auxiliary and control 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
 for auxiliary contacts 	
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14)		
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		
 of the auxiliary and control 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	-20 +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 Product	t Approval		Declaration of Conformity	Test Certificates	
	CSA CSA	EHC	EG-Konf.	Declaration of the Compliance with the order	Special Test Certificate
Test Certificates	Shipping App	proval			
<u>Type Test</u> Certificates/Test <u>Report</u>	ABS	BUREAU VERITAS	ŮŇ DNV	GL	Lloyd's Register LRS
Shipping Approv	/al		other		
PRS	RINA	RMRS	Environmental Confirmations	Confirmation	VDE
other					
other					

other

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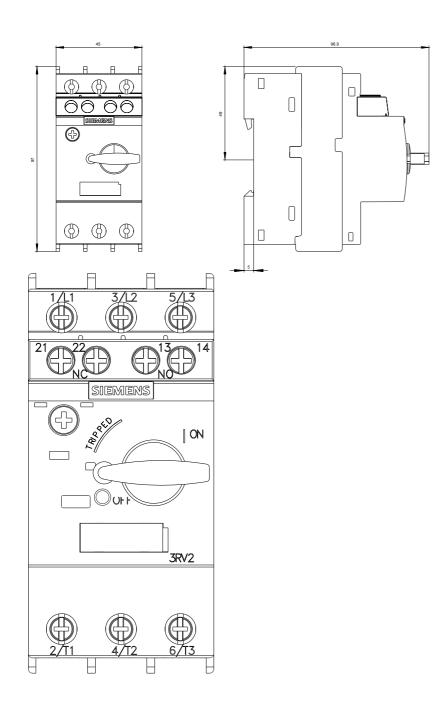
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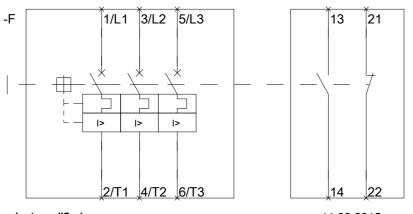
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV24111EA15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV24111EA15&lang=en





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