SIEMENS

Data sheet

3RV2411-1DA10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROT. A-RELEASE 2.2...3.2A, N-RELEASE 65A SCREW CONNECTION, STANDARD SW. CAPACITY

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
	•	0.0

	N/	<u> </u>
Rated value	V	690
• at AC-3 Rated value maximum	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	A	3.2
Operating current		
• at AC-3		
— at 400 V Rated value	A	3.2
Operating power		
• at AC-3		
— at 230 V Rated value	W	550
— at 400 V Rated value	W	1 100
— at 500 V Rated value	W	1 500
— at 690 V Rated value	W	2 200
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	100
• at 500 V Rated value	kA	100
• at 690 V Rated value	kA	10
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	10
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	65
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	3.2
• at 600 V Rated value	А	3.2
yielded mechanical performance [hp]	_	
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.1
 for single-phase AC motor at 230 V Rated value 	metric hp	0.25
 for three-phase AC motor at 200/208 V Rated value 	metric hp	0.5
 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	1.5
 for three-phase AC motor at 575/600 V Rated value 	metric hp	2

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 400 V	gL/gG 25 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
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

Size of the circuit-bre	eaker		-	S00		
Ambient conditions:						
Installation altitude a maximum		vel	m	2 000		
Ambient temperature	9					
 during operation 			°C	-20 +60		
• during storage			°C	-50 +80		
during transport		°C	-50 +80			
Relative humidity du	Relative humidity during operation			10 95		
Display:						
Display version						
 for switching st 	tatus			Handle		
Certificates/ approva	als:					
General Product	t Approval				Declaration of	Test
					Conformity	Certificates
	(SA)	<u>KTL</u>	E	7F	EG-Konf.	Special Test Certificate
Test Certificates	1	Shipping A	Approval			_
Test Certificates	Declaration of the Compliance with the order	Shipping A	B U F		ĴÅ DNV DNV	GL
Type Test Certificates/Test	Declaration of the Compliance with the order	ALCAN BURKER	B U F			
<u>Type Test</u> Certificates/Test <u>Report</u>	Declaration of the Compliance with the order	ALCAN BURKER	B U F V E R		DNV	
Type Test Certificates/Test Report Shipping Approv	Declaration of the Compliance with the order	ABS	B U F V E R		DNV other	GL
Type Test Certificates/Test Report Shipping Approv Lloyds LRS	Declaration of the Compliance with the order	ABS	B U F V E R		DNV other	GL

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