SIEMENS

Data sheet

3RV2011-1DA20



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELEASE 42A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY

Product designation General technical data:	W	3RV2 circuit breaker
		6
Active power loss total typical	VV	0
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
Size of contactor can be combined company-specific		SO
Protection class IP		
• on the front		IP20
• of the terminal		IP20
Type of protection	_	Increased safety
Equipment marking		
• acc. to DIN EN 81346-2		Q
Main circuit:		
Number of poles for main current circuit		3

Adjustable response value current of the current-	А	2.2 3.2
dependent overload release	~	2.2 0.2
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	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 400 V Rated value with AC at 500 V Rated value 	kA kA	100 100
• with AC at 500 V Rated value	kA	100

kA	10
kA	10
A	42
А	3.2
А	3.2
metric	0.1
hp	
metric	0.25
hp	
metric	0.5
hp	
metric	0.75
hp	
metric	1.5
hp	
metric	2
hp	
	kA A A A Metric hp metric hp metric hp metric hp metric hp metric hp metric

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:

installation/ mounting/ unnensions.		
mounting position		any
Mounting type		screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	mm	106
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 	spring-loaded 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 (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 	2x (20 12)
Design of screwdriver shaft	Diameter 5 to 6 mm

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-bre	eaker			S00		
Ambient conditions:						
Installation altitude a maximum	t height above sea	level	m	2 000		
Ambient temperature	9					
 during operation 	n		°C	-20 +60		
 during storage 			°C	-50 +80		
 during transport 			°C	-50 +80)	
Relative humidity du	ring operation		%	10 95		
Display:						
Display version						
 for switching st 	tatus			Handle		
Certificates/ approva	als:					
General Product						Declaration of
						Conformity
	(SA)			<u>KTL</u>	EHC	EG-Konf.
Test Certificates				Shipping Appr	roval	
Test Certificates	Special Test Certificate	Declaration o Compliance wi order		Shipping Appr	roval BUREAU VERITAS	DNV DNV
Type Test Certificates/Test Report	Special Test Certificate	Compliance wi		CAN SOLE A	roval	
Type Test Certificates/Test	Special Test Certificate	Compliance wi		CAN SOLE A	roval	DNV
Type Test Certificates/Test Report Shipping Approv	Special Test Certificate	Compliance wi		ABS	B U R E A U V E R I TA S	DNV other Environmental
Type Test Certificates/Test Report Shipping Approv GL GL	Special Test Certificate	Compliance wi		ABS	B U R E A U V E R I TA S	DNV other Environmental

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