SIEMENS

Data sheet

3RV2011-1JA20



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 7...10A, N-RELEASE 130A, SPRING-L. CONNECTION, STANDARD SW. CAPACITY

product brand name	-	SIRIUS
Product designation	-	3RV2 circuit breaker
General technical data:		
Active power loss total typical	W	7
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	_	S2
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

۸	7 10
A	710
V	690
V	690
Hz	50 60
A	10
А	10
W	2 200
W	4 000
W	5 500
W	7 500
1/h	15
	0
	0
	0
	Yes
	CLASS 10
	thermal
kA	100
kA	100
kA	42
kA	4
kA	100
kA	100
kA	42
kA	6
	V Hz A A W W W W W U 1/h

 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	130
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	10
• at 600 V Rated value	А	10
yielded mechanical performance [hp]	-	
 for single-phase AC motor at 110/120 V Rated 	metric	0.5
value	hp	
 for single-phase AC motor at 230 V Rated 	metric	1.5
value	hp	
 for three-phase AC motor at 200/208 V Rated 	metric	2
value	hp	
 for three-phase AC motor at 220/230 V Rated 	metric	3
value	hp	
 for three-phase AC motor at 460/480 V Rated 	metric	5
value	hp	
 for three-phase AC motor at 575/600 V Rated 	metric	7.5
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 400 V	gL/gG 50 A
• at 500 V	gL/gG 40 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 106 Width 45 mm Depth mm 96 **Required spacing** • with side-by-side mounting - forwards mm 0 0 mm - Backwards mm 50 - upwards

— 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-b	reaker			S00		
Ambient conditions	s:					
	at height above sea lev	vel	m	2 000		
Ambient temperatu	re					
 during operat 	ion		°C	-20 +60		
 during storage 	e		°C	-50 +80		
 during transp 	ort		°C	-50 +80		
Relative humidity d	uring operation		%	10 95		
Display:						
Display version						
 for switching 	status			Handle		
Certificates/ appro	vale					
General Produc						Declaration of Conformity
	SA CSA			<u>KTL</u>	EHC	EG-Konf.
Test Certificate	95		S	hipping Approv	/al	
Test Certificate Special Test Certificate	E Declaration of the Compliance with the order	<u>Type Test</u> Certificates/T <u>Report</u>		Chipping Approv		ĴŜ DNV DNV
Special Test	Declaration of the Compliance with the order	Certificates/T		ACAN BUTT	Val DUREAU VERITAS	
Special Test Certificate	Declaration of the Compliance with the order	Certificates/T		ACAN BUTT	Yal DUREAU VERITAS	DNV
Shipping Appro GL other	Declaration of the Compliance with the order	Certificates/T Report		ABS	B U R E A U V E R I TA S	other
Shipping Appro	Declaration of the Compliance with the order	Certificates/T		ABS	B U R E A U V E R I TA S	DNV other

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