SIEMENS

Data sheet

3RV2011-1KA40



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-RELEASE 9..12.5A, N-RELEASE 163A, RING CABLE LUG 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		IP00
 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- dependent overload release A 9 12.5 Operating voltage V 690 • Rated value V 690 • operating frequency Rated value Hz 50 60 Operating current Rated value A 12.5 Operating current A 12.5 • at AC-3 A 12.5 Operating current A 12.5 • at AC-3 A 12.5 Operating power A 12.5 • at AC-3 A 12.5 - at 200 V Rated value W 3 000 - at 400 V Rated value W 3 000 - at 400 V Rated value W 7 500 - at 500 V Rated value W 7 500 - at 600 V Rated value W 7 500 • at AC-3 maximum 1/h 15 Auxiliary contacts 0 0 • for auxiliary contacts <td< th=""><th></th></td<>	
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Operational short-circuit current breaking capacity (Ics) with AC	
(Ics) with AC	
• at 240 V Rated value kA 100	
• at 400 V Rated value kA 100	
• at 500 V Rated value kA 42	
• 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 42	
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	163
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	12.5
• at 600 V Rated value	А	12.5
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	2
value	hp	
 for three-phase AC motor at 200/208 V Rated 	metric	3
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	7.5
value	hp	
 for three-phase AC motor at 575/600 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 400 V	gL/gG 63 A
• at 500 V	gL/gG 50 A
• at 690 V	gL/gG 40 A

Installation/ mounting/ dimensions:

istaliation, mounting, almensions.		
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 		ring cable connection
 for auxiliary and control current circuit 		ring cable connection
Arrangement of electrical connectors for main current circuit	_	Top and bottom
Product function	-	
 removable terminal for auxiliary and control circuit 		No
Tightening torque	_	
 for ring cable lug 		
— for main contacts	N∙m	1.2 0.8
— for auxiliary contacts	N∙m	1.2 0.8
Outer diameter of the usable ring cable lug maximum	mm	7.5
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
Description of descriptions follows		

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

ze of the circuit-breaker		000		
		S00		
bient conditions:				
stallation altitude at height above sea level	m	2 000		
aximum				
nbient temperature				
 during operation 	°C	-20 +60		
 during storage 	°C	-50 +80		
 during transport 	°C	-50 +80		
elative humidity during operation	%	10 95		
play:				
splay version				
 for switching status 		Handle		
rtificates/ approvals:				
General Product Approval			Declaration of	Test
			Conformity	Certificates
CCC CSA	L	AC	EG-Konf.	
Test Shipping Approval Certificates				
Type Test Certificates/Test Report ABS	1		GL	Lloyd's Kegister LRS
Shipping Approval	ot	her		
		Confirmation	Environmental Confirmations	
PRS RINA RMRS				VDE

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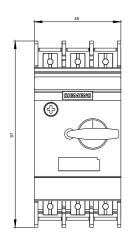
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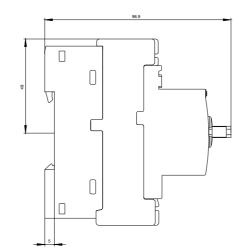
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