# **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	-	
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	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)	_	
<ul> <li>of the main contacts typical</li> </ul>		100 000
<ul> <li>of the auxiliary contacts typical</li> </ul>		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
<ul> <li>of the terminal</li> </ul>		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	

<ul> <li>with 2 current paths in series for DC at 300 V Rated value</li> </ul>	kA	10
<ul> <li>with 3 current paths in series for DC at 450 V Rated value</li> </ul>	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]	-	
<ul> <li>for single-phase AC motor at 110/120 V Rated</li> </ul>	metric	0.5
value	hp	
<ul> <li>for single-phase AC motor at 230 V Rated</li> </ul>	metric	2
value	hp	
<ul> <li>for three-phase AC motor at 200/208 V Rated</li> </ul>	metric	3
value	hp	
<ul> <li>for three-phase AC motor at 220/230 V Rated</li> </ul>	metric	3
value	hp	
<ul> <li>for three-phase AC motor at 460/480 V Rated</li> </ul>	metric	7.5
value	hp	
<ul> <li>for three-phase AC motor at 575/600 V Rated</li> </ul>	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		
<ul> <li>with side-by-side mounting</li> </ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	50

— downwards	mm	50
— at the side	mm	0
<ul> <li>for grounded parts</li> </ul>		
— 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		
<ul> <li>for main current circuit</li> </ul>		ring cable connection
<ul> <li>for auxiliary and control current circuit</li> </ul>		ring cable connection
Arrangement of electrical connectors for main current circuit	_	Top and bottom
Product function	-	
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No
Tightening torque	_	
<ul> <li>for ring cable lug</li> </ul>		
— 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		
<ul> <li>for main contacts</li> </ul>		M3
<ul> <li>of the auxiliary and control contacts</li> </ul>		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		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	40
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	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				
<ul> <li>during operation</li> </ul>	°C	-20 +60		
<ul> <li>during storage</li> </ul>	°C	-50 +80		
<ul> <li>during transport</li> </ul>	°C	-50 +80		
elative humidity during operation	%	10 95		
play:				
splay version				
<ul> <li>for switching status</li> </ul>		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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Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

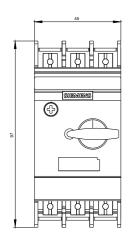
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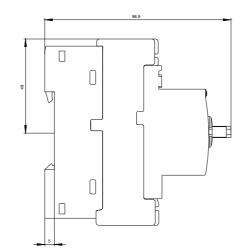
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14.03.2015

