# **SIEMENS**

### Data sheet

## 3RV2321-4DC10



CIRCUIT-BREAKER SZ S0, FOR STARTER COMBINATION, RATED CURRENT 25A, N-RELEASE 325A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name		SIRIUS		
Product designation		3RV2 circuit breaker		
General technical data:				
Active power loss total typical	W	8		
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		
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		
Operating voltage				
Rated value	V	690		
<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690		

Operating frequency Rated value	Hz	50 60
Operating current Rated value	A	25
Operating current	-	
• at AC-3		
— at 400 V Rated value	А	25
Operating power	-	
• at AC-3		
— at 230 V Rated value	W	5 500
— at 400 V Rated value	W	11 000
— at 500 V Rated value	W	15 000
— at 690 V Rated value	W	22 000
Operating frequency	-	
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Number of NO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Number of CO contacts		
<ul> <li>for auxiliary contacts</li> </ul>		0
Product expansion Auxiliary switch		Yes
Protective and monitoring functions:	-	
Operational short-circuit current breaking capacity (Ics) with AC		
• at 240 V Rated value	kA	100
• at 400 V Rated value	kA	25
• at 500 V Rated value	kA	5
• at 690 V Rated value	kA	2
Maximum short-circuit current breaking capacity (Icu)	-	
<ul> <li>with AC at 240 V Rated value</li> </ul>	kA	100
<ul> <li>with AC at 400 V Rated value</li> </ul>	kA	55
<ul> <li>with AC at 500 V Rated value</li> </ul>	kA	10
<ul> <li>with AC at 690 V Rated value</li> </ul>	kA	4
Breaking capacity short-circuit current (Icn)		
<ul> <li>with 1 current path for DC at 150 V Rated value</li> </ul>	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-	A	325

UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	А	25
• at 600 V Rated value	А	25
yielded mechanical performance [hp]	_	
<ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul>	metric hp	2
<ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>	metric hp	3
<ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>	metric hp	5
<ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>	metric hp	7.5
<ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>	metric hp	15

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 50 A

nstallation/ 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				
<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		
• 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		
<ul> <li>for main current circuit</li> </ul>		screw-type terminals
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
Type of connectable conductor cross-section		
<ul> <li>for main contacts</li> </ul>		
— single or multi-stranded		2x (1 2,5 mm²), 2x (2,5 10 mm²)
— finely stranded with core end processing		2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (16 12), 2x (14 8)
Tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	N∙m	2 2.5
Design of screwdriver shaft		Diameter 5 to 6 mm
Design of the thread of the connection screw		
<ul> <li>for main contacts</li> </ul>		M4

Safety related data:		
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
Mechanical data:		
Size of the circuit-breaker		S0
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		

<ul> <li>during operation</li> </ul>	°C	-20 +60
<ul> <li>during storage</li> </ul>	°C	-50 +80
during transport	°C	-50 +80
Relative humidity during operation	%	10 95

Display:

#### Display version

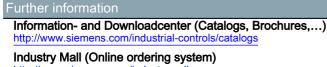
• for switching status

Handle

#### Certificates/ approvals: **General Product Approval Declaration of Test Certificates** Conformity Type Test **Special Test** FHF Certificates/Test Certificate Report EG-Konf. CCC Test **Shipping Approval** Certificates Declaration of the Compliance with the loyďs ístei order GL LRS ABS DN\

Shipping App	proval		other		
PRS	RINA	RMRS	Confirmation	Environmental Confirmations	

other	
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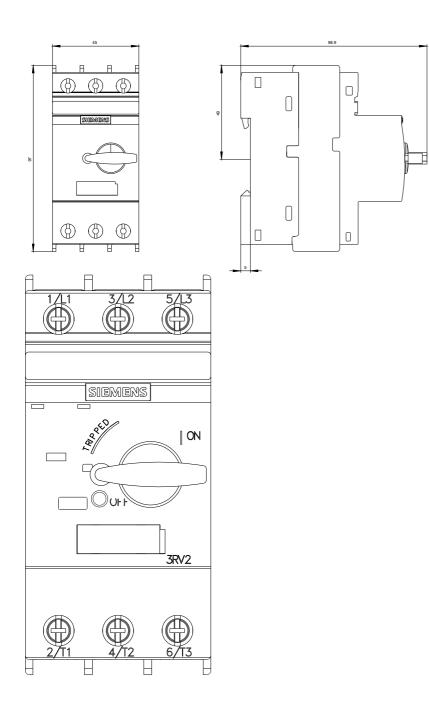


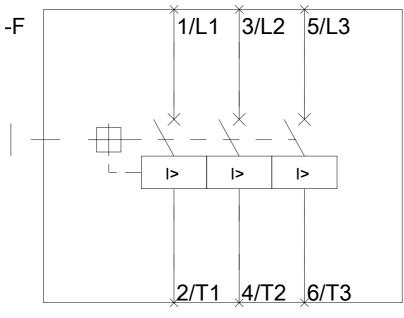
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Cax online generator

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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RV23214DC10/all





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