## Data sheet

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



Product brand name	SIRIUS		
Product designation	Circuit breaker		
Design of the product	For starter combinations		
Product type designation	3RV2		

General technical data			
Size of the circuit-breaker	S0		
Size of contactor can be combined company-specific	S00, S0		
Product extension			
Auxiliary switch	Yes		
Power loss [W] for rated value of the current			
<ul> <li>at AC in hot operating state</li> </ul>	10.5 W		
• at AC in hot operating state per pole	3.5 W		
Insulation voltage with degree of pollution 3 rated	690 V		
value			
Surge voltage resistance rated value	6 kV		
maximum permissible voltage for safe isolation			
<ul> <li>in networks with grounded star point between</li> </ul>	400 V		
main and auxiliary circuit			

400 V			
IP20			
IP20			
25g / 11 ms			
100 000			
100 000			
100 000			
Q			
2 000 m			
-20 +60 °C			
-50 +80 °C			
-50 +80 °C			
10 95 %			
10 III 00 //			
3			
3			
3 690 V			
3 690 V 690 V			
3 690 V 690 V 50 60 Hz			
3 690 V 690 V			
3 690 V 690 V 50 60 Hz			
3 690 V 690 V 50 60 Hz 25 A			
3 690 V 690 V 50 60 Hz			
3 690 V 690 V 50 60 Hz 25 A			
3 690 V 690 V 50 60 Hz 25 A			
3 690 V 690 V 50 60 Hz 25 A 25 A			
3 690 V 690 V 50 60 Hz 25 A 25 A 5 500 W 11 000 W			
3 690 V 690 V 50 60 Hz 25 A  25 A  5 500 W 11 000 W 15 000 W			
3 690 V 690 V 50 60 Hz 25 A 25 A 5 500 W 11 000 W			
3 690 V 690 V 50 60 Hz 25 A  25 A  5 500 W 11 000 W 15 000 W 22 000 W			
3 690 V 690 V 50 60 Hz 25 A  25 A  5 500 W 11 000 W 15 000 W			
3 690 V 690 V 50 60 Hz 25 A  25 A  5 500 W 11 000 W 15 000 W 22 000 W			

Number of NO contacts for auxiliary contacts	0		
Number of CO contacts			
• for auxiliary contacts	0		
Protective and monitoring functions			
Product function			
Ground fault detection	No		
Phase failure detection	No		
Operational short-circuit current breaking capacity (Ics) at AC			
at 240 V rated value	100 kA		
• at 400 V rated value	25 kA		
● at 500 V rated value	5 kA		
● at 690 V rated value	2 kA		
Maximum short-circuit current breaking capacity (Icu)			
• at AC at 240 V rated value	100 kA		
• at AC at 400 V rated value	55 kA		
• at AC at 500 V rated value	10 kA		
• at AC at 690 V rated value	4 kA		
Response value current			
• of instantaneous short-circuit trip unit	325 A		
UL/CSA ratings			
Full-load current (FLA) for three-phase AC motor			
● at 480 V rated value	25 A		
• at 600 V rated value	25 A		
Yielded mechanical performance [hp]			
<ul><li>for single-phase AC motor</li></ul>			
— at 110/120 V rated value	2 hp		
— at 230 V rated value	3 hp		
<ul> <li>for three-phase AC motor</li> </ul>			
— at 200/208 V rated value	5 hp		
— at 220/230 V rated value	7.5 hp		
— at 460/480 V rated value	15 hp		
Short-circuit protection			
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		
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	97 mm			
Width	45 mm			
Depth	97 mm			
Required spacing				
<ul><li>with side-by-side mounting</li></ul>				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	50 mm			
— downwards	50 mm			
— at the side	0 mm			
<ul> <li>for grounded parts</li> </ul>				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	50 mm			
— at the side	30 mm			
— downwards	50 mm			
• for live parts				
— forwards	0 mm			
— Backwards	0 mm			
— upwards	50 mm			
— downwards	50 mm			
— at the side	30 mm			
Connections/ Terminals				
Product function				
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	No			
Type of electrical connection				
for main current circuit	screw-type terminals			
Arrangement of electrical connectors for main current circuit	Top and bottom			
Type of connectable conductor cross-sections				
• for main contacts				
<ul><li>— single or multi-stranded</li></ul>	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>at AWG conductors for main contacts</li> </ul>	2x (16 12), 2x (14 8)			
Tightening torque				

Design of screwdriver shaft

Size of the screwdriver tip

• for main contacts with screw-type terminals

2 ... 2.5 N·m

Pozidriv 2

Diameter 5 to 6 mm

#### Design of the thread of the connection screw

• for main contacts

M4

Safety related data			
B10 value			
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	5 000		
Proportion of dangerous failures			
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %		
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	50 %		
Failure rate [FIT]			
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 FIT		
T1 value for proof test interval or service life acc. to IEC 61508	10 y		
Display version			
• for switching status	Handle		

## Certificates/ approvals

### **General Product Approval**

Declaration of Conformity











Declaration of Conformity	Test Certificates		Marine / Shipping		
Miscellaneous	Type Test Certificates/Test Report	Special Test Certificate	CAN SOME CONTROLL OF SHIPPING	BUREAU VERITAS	Lloyd's Register

# Marine / Shipping

other









Confirmation



## Railway

Vibration and Shock

Confirmation

### Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2321-4DC10-Z X95

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2321-4DC10-Z X95

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4DC10-Z X95

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2321-4DC10-Z X95&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2321-4DC10-Z X95/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-4DC10-Z X95&objecttype=14&gridview=view1







