## **SIEMENS**

Data sheet	3RV2011-0EA10	
	CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL. 0.280.4A, N-RELEASE5.2A, SCREW CONNECTION, STANDARD SW. CAPACITY	
product brandname	SIRIUS	
Product designation	Circuit breaker	
Design of the product	For motor protection	
Product type designation	3RV2	
General technical data		
Size of the circuit-breaker	S00	
Size of contactor can be combined company-specific	S00, S0	
Product extension		
Auxiliary switch	Yes	
Power loss [W] total typical	5 W	
Insulation voltage with degree of pollution 3 rated value	690 V	
Surge voltage resistance rated value	6 kV	
maximum permissible voltage for safe isolation		
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	400 V	
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	400 V	
Protection class IP		
• on the front	IP20	
of the terminal	IP20	
Shock resistance		
• acc. to IEC 60068-2-27	25g / 11 ms	
Mechanical service life (switching cycles)		
of the main contacts typical	100 000	
of auxiliary contacts typical	100 000	
Electrical endurance (switching cycles)		
• typical	100 000	
Type of protection	Increased safety	
Certificate of suitability relating to ATEX	on request	
Protection against electrical shock	finger-safe	
Equipment marking acc. to DIN EN 81346-2	Q	
Ambient conditions		
Installation altitude at height above sea level maximum	2 000 m	

00
-20 +60 °C
-50 +80 °C
-50 +80 °C
-20 +60 °C
10 95 %
3
0.28 0.4 A
690 V
690 V
50 60 Hz
0.4 A
0.4 A
60 W
90 W
120 W
180 W
15 1/h
0
0
0
O .
CLASS 10
CLASS 10

• at 400 V rated value

• at 500 V rated value

100 kA

100 kA

• at 690 V rated value	100 kA		
Maximum short-circuit current breaking capacity (Icu)			
● at AC at 240 V rated value	100 kA		
• at AC at 400 V rated value	100 kA		
• at AC at 500 V rated value	100 kA		
• at AC at 690 V rated value	100 kA		
Breaking capacity short-circuit current (Icn)			
• at 1 current path at DC at 150 V rated value	10 kA		
<ul> <li>with 2 current paths in series at DC at 300 V rated value</li> </ul>	10 kA		
<ul> <li>with 3 current paths in series at DC at 450 V rated value</li> </ul>	10 kA		
UL/CSA ratings			
Full-load current (FLA) for three-phase AC motor			
• at 480 V rated value	0.4 A		
● at 600 V rated value	0.4 A		
Short-circuit protection			
Product function Short circuit protection	Yes		
Design of the short-circuit trip	magnetic		
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	96 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		
• for grounded parts			
— forwards	0 mm		
— Backwards	0 mm		
— upwards	50 mm		
— at the side	30 mm		
— downwards	50 mm		
<ul><li>— downwards</li><li>● for live parts</li><li>— forwards</li></ul>			

— 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 (0,75 2,5 mm²), 2x 4 mm²	
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (18 14), 2x 12	
Tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m	
Design of screwdriver shaft	Diameter 5 to 6 mm	
Design of the thread of the connection screw		
• for main contacts	M3	

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**

For use in hazardous locations







KTL





hazardous Conformity locations	pping Approval
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Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge n





Shipp	ing Ap	proval
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**other**Umweltbestätigung

Bestätigungen

other Railway



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Schwingen/Schocke

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## Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-0EA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-0EA10&lang=en

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