SIEMENS

Data sheet 3RV2311-1GC10



CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 6.3A, N-RELEASE 82A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:			
Active power loss total typical	W	6	
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	
Size of contactor can be combined company-specific		S00	
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

at AC-3 Nated value maximum	v	000
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	6.3
Operating current		
• at AC-3		
— at 400 V Rated value	Α	6.3
Operating power		
• at AC-3		
— at 230 V Rated value	W	1 500
— at 400 V Rated value	W	2 200
— at 500 V Rated value	W	3 000
— at 690 V Rated value	W	4 000
Operating frequency		
• at AC-3 maximum	1/h	15
Auxiliary circuit:		
Number of NC contacts		
for auxiliary contacts		0
Number of NO contacts		
for auxiliary contacts		0
Number of CO contacts		
for auxiliary contacts		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	100
at 500 V Rated value at 500 V Rated value	kA	100
	kA	4
at 690 V Rated value Maximum short circuit current breaking capacity (lou)		7
Maximum short-circuit current breaking capacity (Icu) • with AC at 240 V Rated value	kA	100
▼ WILL AC ALZ4U V DateU Value	IV V	100
	kΔ	100
• with AC at 400 V Rated value	kA kΔ	100
with AC at 400 V Rated valuewith AC at 500 V Rated value	kA	100
 with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value 		
with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value Breaking capacity short-circuit current (Icn)	kA kA	100 6
 with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value Breaking capacity short-circuit current (Icn) with 1 current path for DC at 150 V Rated value 	kA kA	100 6 10
with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value Breaking capacity short-circuit current (Icn)	kA kA	100 6
 with AC at 400 V Rated value with AC at 500 V Rated value with AC at 690 V Rated value Breaking capacity short-circuit current (Icn) with 1 current path for DC at 150 V Rated value with 2 current paths in series for DC at 300 V 	kA kA	100 6 10

690

• at AC-3 Rated value maximum

UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
● at 480 V Rated value	Α	6.3
• at 600 V Rated value	Α	6.3
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.25
 for single-phase AC motor at 230 V Rated value 	metric hp	0.5
 for three-phase AC motor at 200/208 V Rated value 	metric hp	1
 for three-phase AC motor at 220/230 V Rated value 	metric hp	1.5
 for three-phase AC motor at 460/480 V Rated value 	metric hp	3
• for three-phase AC motor at 575/600 V Rated value	metric hp	5
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 50 A
● at 500 V		gL/gG 40 A
● at 690 V		gL/gG 35 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	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		screw-type terminals	
Arrangement of electrical connectors for main current		Top and bottom	
circuit			
Product function			
 removable terminal for auxiliary and control 		No	
circuit			
Type of connectable conductor cross-section			
• for main contacts			
— single or multi-stranded		2x (0,75 2,5 mm²), 2x 4 mm²	
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 for AWG conductors for main contacts 		2x (18 14), 2x 12	
Tightening torque			
 for main contacts with screw-type terminals 	N·m	0.8 1.2	
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 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	

Mechanical data:		
Size of the circuit-breaker	S00	

Ambient conditions:

Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
 during operation 	°C	-20 +60
during storage	°C	-50 +80
during transport	°C	-50 + 80
Relative humidity during operation	%	10 95

Display version

• for switching status Handle

General Product Approval

Declaration of Conformity

Test Certificates







Type Test Certificates/Test Report

Test Certificates

Shipping Approval

KTL

Special Test Certificate

Declaration of the Compliance with the order









GL

Shipping Approval



LRS







other

Confirmation

Environmental Confirmations

other



other

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

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

Industry Mall (Online ordering system) http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV23111GC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV23111GC10&lang=en



