SIEMENS

Data sheet 3RV2311-1FC20



CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 5A, N-RELEASE 65A, SPRING-L. 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 Rated value maximum	V	090
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	5
Operating current		
• at AC-3		
— at 400 V Rated value	Α	5
Operating power		
• at AC-3		
— at 230 V Rated value	W	1 100
— at 400 V Rated value	W	2 200
— at 500 V Rated value	W	2 200
— at 690 V Rated value	W	4 000
Operating frequency		
• at AC-3 maximum	1/h	15
uxiliary 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
rotective and monitoring functions:		
Operational short-circuit current breaking capacity		
(Ics) with AC		400
• at 240 V Rated value	kA	100
● at 400 V Rated value	kA	100
● at 500 V Rated value	kA	100
● at 690 V Rated value	kA	4
Maximum short-circuit current breaking capacity (lcu)		***
• 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	100
• with AC at 690 V Rated value	kA	6
Breaking capacity short-circuit current (lcn)		
 with 1 current path for DC at 150 V Rated value 	kA	10
·	kA	10
with 7 current path of BC at 150 V Nated Value with 2 current paths in series for DC at 300 V Rated value	NA.	
• with 2 current paths in series for DC at 300 V	kA	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	5	
• at 600 V Rated value	Α	5	
yielded mechanical performance [hp]			
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.167	
 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	
• 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	3	
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 32 A	
● at 500 V		gL/gG 32 A	
● at 690 V		gL/gG 25 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	106	
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	spring-loaded terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Product function	
 removable terminal for auxiliary and control circuit 	No
Type of connectable conductor cross-section	
• for main contacts	
— single or multi-stranded	2x (0,5 4 mm²)
— finely stranded with core end processing	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
 for AWG conductors for main contacts 	2x (20 12)
Design of screwdriver shaft	Diameter 5 to 6 mm

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	m	2 000
maximum		
Ambient temperature		

during operation	°C	-20 +60
during storage	°C	-50 +80
 during transport 	°C	-50 + 80
Relative humidity during operation	%	10 95

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Display version

• for switching status

Handle

Certificates/ approvals:

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

Further information

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=3RV23111FC20

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

http://support.automation.siemens.com/WW/view/en/3RV23111FC20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV23111FC20&lang=en



