SIEMENS

Data sheet 3RV2311-1HC10



CIRCUIT-BREAKER SZ S00, FOR STARTER COMBINATION, RATED CURRENT 8A, N-RELEASE 104A, SCREW CONNECTION, STANDARD SW. CAPACITY

product brand name	SIRIUS
Product designation	3RV2 circuit breaker

General technical data:			
Active power loss total typical	W	7	
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	8
Operating current		
• at AC-3		
— at 400 V Rated value	Α	8
Operating power		
• at AC-3		
— at 230 V Rated value	W	1 500
— at 400 V Rated value	W	3 000
— at 500 V Rated value	W	4 000
— at 690 V Rated value	W	5 500
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	kA	42
at 690 V Rated value	kA	4
Maximum short-circuit current breaking capacity (Icu)		•
• 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	42
with AC at 500 V Rated valuewith AC at 690 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	42 6
 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	42610
with AC at 500 V Rated value with AC at 690 V Rated value Breaking capacity short-circuit current (Icn)	kA kA	42 6
 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	42610
 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 Rated value 	kA kA kA kA	42 6 10 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	8
● at 600 V Rated value	Α	8
yielded mechanical performance [hp]		
 for single-phase AC motor at 110/120 V Rated value 	metric hp	0.333
 for single-phase AC motor at 230 V Rated value 	metric hp	1
 for three-phase AC motor at 200/208 V Rated value 	metric hp	2
 for three-phase AC motor at 220/230 V Rated value 	metric hp	2
 for three-phase AC motor at 460/480 V Rated value 	metric hp	5
• 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:

Display version

• for switching status Handle

General Product Approval

Declaration of Conformity

Test Certificates





Special Test Certificate

Test Certificates

Shipping Approval

KTL

Declaration of the Compliance with the order

Type Test Certificates/Test Report









GL

Shipping Approval



LRS





other

Environmental Confirmations

Confirmation

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=3RV23111HC10

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV23111HC10&lang=en



