SIEMENS

Data sheet

3RV2311-1HC20



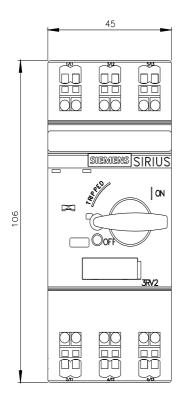
Circuit breaker size S00 for starter combination Rated current 8 A N-release 104 A Spring-type terminal Standard switching capacity

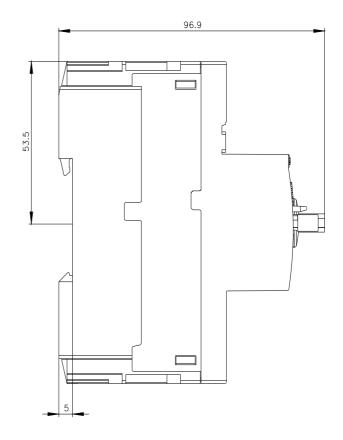
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	9.25 W
 at AC in hot operating state per pole 	3.1 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according 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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
operating voltage	
 rated value 	20 690 V
 at AC-3 rated value maximum 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	8 A
operational current	
 at AC-3 at 400 V rated value 	8 A
 at AC-3e at 400 V rated value 	8 A

operating power	
• at AC-3	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	1.5 kW
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
 at AC-3e maximum 	15 1/h
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
Protective and monitoring functions	
product function	
ground fault detection	No
 phase failure detection 	No
breaking capacity maximum short-circuit current (lcu)	
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 	42 kA
 at AC at 690 V rated value 	6 kA
breaking capacity operating short-circuit current (lcs)	
at AC	
• at 240 V rated value	100 kA
 at 400 V rated value 	100 kA
• at 500 V rated value	42 kA
• at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	104 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	8 A
• at 600 V rated value	8 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.33 hp
— at 230 V rated value	1 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	2 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	5 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 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715

height 106 mm width 45 mm depth 97 mm required spacing 97 mm	
depth 97 mm	
• for grounded parts at 400 V	
— downwards 30 mm	
— upwards 30 mm	
— at the side 9 mm	
• for live parts at 400 V	
— downwards 30 mm	
— upwards 30 mm	
— at the side 9 mm	
• for grounded parts at 500 V	
— downwards 30 mm	
— upwards 30 mm	
- at the side 9 mm	
• for live parts at 500 V	
— downwards 30 mm	
— upwards 30 mm	
- at the side 9 mm	
• for grounded parts at 690 V	
— downwards 50 mm	
— upwards 50 mm	
— backwards 0 mm	
- at the side 30 mm	
— forwards 0 mm	
• for live parts at 690 V	
— downwards 50 mm	
— upwards 50 mm	
— backwards 0 mm	
- at the side 30 mm	
— forwards 0 mm	
Connections/ Terminals	
type of electrical connection	
for main current circuit spring-loaded terminals	
arrangement of electrical connectors for main current Top and bottom	
circuit	
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded 2x (0,5 4 mm ²)	
 finely stranded with core end processing 2x (0.5 2.5 mm²) 	
 finely stranded without core end processing 2x (0.5 2.5 mm²) 	
at AWG cables for main contacts 2x (20 12)	
design of screwdriver shaft Diameter 3 mm	
size of the screwdriver tip 3,0 x 0,5 mm	
Safety related data	
B10 value	
with high demand rate according to SN 31920 5 000	
proportion of dangerous failures	
• with low demand rate according to SN 31920 50 %	
with high demand rate according to SN 31920 50 %	
failure rate [FIT]	
with low demand rate according to SN 31920 50 FIT	
T1 value for proof test interval or service life according to IEC 61508 10 y	
IEC 61508 IP20 protection class IP on the front according to IEC IP20 60529 finger-safe, for vertical contact from the front	
IEC 61508 IP20 protection class IP on the front according to IEC IP20 60529 IP20	

	oproval				
(SP)	<u>Confirmation</u>		UL UL	<u>KC</u>	EHC
Declaration of Cont	formity	Test Certificates		Marine / Shipping	
CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS	B UREAU VERITAS
Marine / Shipping					other
	Llovd's Register us	PRS	RINA	RMRS	<u>Confirmation</u>
other	Railway				
VDE	<u>Confirmation</u>	<u>Vibration and Shock</u>			
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