## SIEMENS

## Data sheet

## 3RV2311-4AC20



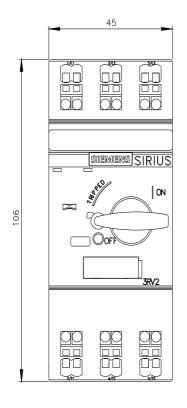
Circuit breaker size S00 for starter combination rated current 16 A Nrelease 208 A Spring-type terminal Standard switching capacity

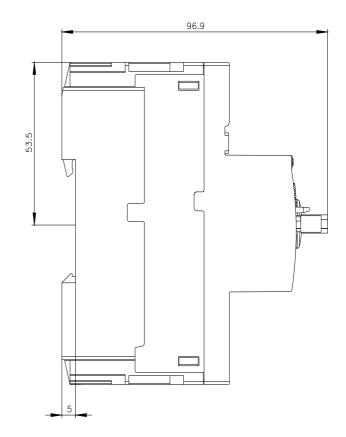
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For starter combinations
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	9.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	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)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
<ul> <li>during transport</li> </ul>	-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
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	16 A
operational current	
• at AC-3 at 400 V rated value	16 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	16 A

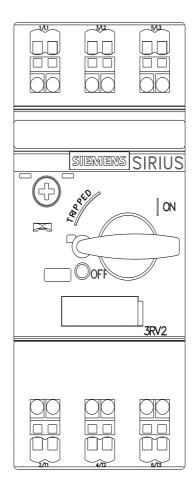
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
<ul> <li>at AC-3e maximum</li> </ul>	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	55 kA
• at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
breaking capacity operating short-circuit current (lcs)	
at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	30 kA
<ul> <li>at 500 V rated value</li> </ul>	5 kA
• at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	208 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	16 A
<ul> <li>at 600 V rated value</li> </ul>	16 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	5 hp
— at 460/480 V rated value	10 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 240 V	gL/gG 80 A
• at 400 V	gL/gG 63 A
● at 500 V	gL/gG 50 A
• at 690 V	gL/gG 40 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

width45 mmdepth97 mmdepth97 mmefor grounded parts at 400 V30 mm- domwards30 mm- upwards30 mm- domwards9 mmof low parts at 400 V9- domwards90 mm- domwards90 mm- domwards90 mm- domwards90 mm- domwards90 mm- upwards90 mm	height	106 mm
deptin         97 mm           required space         90 mm           - opwards         90 mm           - opwards         90 mm           - ot the side         90 mm           - ot wards         30 mm           - ot wards         30 mm           - ot wards         30 mm           - ot the side         90 mm           - ot wards         30 mm           - ot wards         30 mm           - ot wards         30 mm           - ot the side         90 mm           - ot wards         30 mm           - ot wards         30 mm           - otwards         90 mm		
required spacing	depth	
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- downwards 30 mm - upwards 30 mm - of the parts at 400 V - downwards 30 mm - upwards 400 V - upwards 4		
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• for grounded parts at 500 V		9 mm
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type of electrical connection         spring-loaded terminals           • for main current circuit         Top and bottom           arrangement of electrical connectors for main current circuit         Top and bottom           • for main contacts         - solid or stranded         2x (0,5 4 mm²)           - finely stranded with core end processing         2x (0,5 25 mm²)         2x (0,5 25 mm²)           - finely stranded with core end processing         2x (0,5 25 mm²)         2x (0,2 4 mm²)           - finely stranded with core end processing         2x (0,5 25 mm²)         2x (0,2 4 mm²)           - finely stranded with core end processing         2x (0,5 2,5 mm²)         2x (0,2 12)           design of screwdriver shaft         Diameter 3 mm         3,0 x 0,5 mm           size of the screwdriver tip         3,0 x 0,5 mm         3,0 x 0,5 mm           atAty related data         Entry         50 00           e with high demand rate according to SN 31920         50 %         50 %           • with low demand rate according to SN 31920         50 FIT         11 value for proof test interval or service life according to IC 050%           failure rate [FIT]         • with low demand rate according to SN 31920         50 FIT         10 y           I' value for proof test interval or service life according to IEC 60529         IP20         IP20		0 11111
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	<ul> <li>for main contacts</li> </ul>	
finely stranded without core end processing • at AWG cables for main contacts2x (0.5 2.5 mm²) 2x (20 12)design of screwdriver shaftDiameter 3 mmsize of the screwdriver tip3,0 x 0,5 mmSafety related data5000B10 value • with high demand rate according to SN 319205 000proportion of dangerous failures • with low demand rate according to SN 319205 000with high demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %failure rate [FIT] • with low demand rate according to SN 3192050 FIT11 value for proof test interval or service life according to IEC 6150810 yprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the front Handle	— solid or stranded	2x (0,5 4 mm²)
• at AWG cables for main contacts2x (20 12)design of screwdriver shaftDiameter 3 mmsize of the screwdriver tip3,0 x 0,5 mmSafety related data5000B10 value5 000• with high demand rate according to SN 319205 000• with high demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %failure rate [FIT] • with low demand rate according to SN 3192050 FIT11 value for proof test interval or service life according to IEC 6150810 yprotection class IP on the front according to IEC 60529IP20display version for switching statusHandle	<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 2.5 mm²)
design of screwdriver shaftDiameter 3 mmsize of the screwdriver tip3,0 x 0,5 mmSafety related data3,0 x 0,5 mmB10 value5000• with high demand rate according to SN 319205 000proportion of dangerous failures50 %• with low demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %failure rate [FIT]50 FIT• with low demand rate according to SN 3192050 FIT11 value for proof test interval or service life according to ILC 6150810 yprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontdisplay version for switching statusHandle	<ul> <li>finely stranded without core end processing</li> </ul>	2x (0.5 2.5 mm²)
size of the screwdriver tip3,0 x 0,5 mmSafety related data3,0 x 0,5 mmB10 value • with high demand rate according to SN 319205 000proportion of dangerous failures • with low demand rate according to SN 3192050 %• with low demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %failure rate [FIT] • with low demand rate according to SN 3192050 FIT11 value for proof test interval or service life according to IEC 6150810 yprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the front Handle		2x (20 12)
Safety related data         B10 value         • with high demand rate according to SN 31920         proportion of dangerous failures         • with low demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         • with high demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • with low demand rate according to SN 31920         • to uch protection class IP on the front according to IEC 60529         finger-safe, for vertical contact from the front         display version for switching status       Handle	design of screwdriver shaft	Diameter 3 mm
B10 value       5 000         proportion of dangerous failures       5 000         with low demand rate according to SN 31920       50 %         with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         with low demand rate according to SN 31920       50 %         failure rate [FIT]       50 FIT         value for proof test interval or service life according to IEC 61508       10 y         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle	size of the screwdriver tip	3,0 x 0,5 mm
• with high demand rate according to SN 319205 000proportion of dangerous failures• with low demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %failure rate [FIT]• with low demand rate according to SN 3192050 FIT• with low demand rate according to SN 3192050 FIT• th low demand rate according to SN 3192050 FIT• th low demand rate according to SN 3192010 y• th low demand rate according to IEC 61508IP20• touch protection on the front according to IEC 60529finger-safe, for vertical contact from the front• display version for switching statusHandle	Safety related data	
proportion of dangerous failures       50 %         • with low demand rate according to SN 31920       50 %         • with high demand rate according to SN 31920       50 %         failure rate [FIT]       50 %         • with low demand rate according to SN 31920       50 FIT         1 value for proof test interval or service life according to IEC 61508       10 y         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle	B10 value	
• with low demand rate according to SN 3192050 %• with high demand rate according to SN 3192050 %failure rate [FIT] • with low demand rate according to SN 3192050 FITT1 value for proof test interval or service life according to IEC 6150810 yprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the front Handle	<ul> <li>with high demand rate according to SN 31920</li> </ul>	5 000
• with high demand rate according to SN 3192050 %failure rate [FIT]·• with low demand rate according to SN 3192050 FITT1 value for proof test interval or service life according to IEC 6150810 yprotection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529finger-safe, for vertical contact from the frontdisplay version for switching statusHandle	proportion of dangerous failures	
failure rate [FIT]       • with low demand rate according to SN 31920       50 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         protection class IP on the front according to IEC 60529       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle	<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 %
with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 61508 Protection class IP on the front according to IEC 60529 IP20 fouch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front for switching status Handle	<ul> <li>with high demand rate according to SN 31920</li> </ul>	50 %
T1 value for proof test interval or service life according to       10 y         IEC 61508       10 y         protection class IP on the front according to IEC       IP20         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front         display version for switching status       Handle	failure rate [FIT]	
IEC 61508     IEC 61508       protection class IP on the front according to IEC 60529     IP20       touch protection on the front according to IEC 60529     finger-safe, for vertical contact from the front       display version for switching status     Handle	<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT
60529       finger-safe, for vertical contact from the front         display version for switching status       Handle		10 у
display version for switching status Handle		IP20
	touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	display version for switching status	Handle
	Certificates/ approvals	

General Product A	pproval				
(SP)	<u>Confirmation</u>			KC	EHC
Declaration of Con	nformity	Test Certificates		Marine / Shipping	
UK CA	CE EG-Konf.	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS	BUREAU VERITAS
Marine / Shipping					other
	Lloyd's Register us	PRS	RINA	RMRS R	<u>Confirmation</u>
other	Railway				
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