## SIEMENS

## Data sheet

## 3RV2311-1KC10



Circuit breaker size S00 for starter combination Rated current 12.5 A N-release 163 A screw terminal Standard switching capacity

4/12 5/15			
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 (operating cycles)			
<ul> <li>of the main contacts typical</li> </ul>	100 000		
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000		
electrical endurance (operating 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			
<ul> <li>rated value</li> </ul>	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	12.5 A		
operational current			
• at AC-3 at 400 V rated value	12.5 A		
• at AC-3e at 400 V rated value	12.5 A		
operating power			
• at AC-3			
— at 230 V rated value	3 kW		

— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
	0
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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	No
maximum short-circuit current breaking capacity (Icu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	42 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	6 kA
operating short-circuit current breaking capacity (lcs)	
at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	42 kA
<ul> <li>at 690 V rated value</li> </ul>	4 kA
response value current of instantaneous short-circuit trip	163 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	12.5 A
• at 480 V rated value	12.5 A 12 5 A
<ul><li>at 480 V rated value</li><li>at 600 V rated value</li></ul>	12.5 A 12.5 A
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> </ul>	
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> </ul>	12.5 A
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> </ul>	12.5 A 0.5 hp
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul>	12.5 A
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 8 hp
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp
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<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link for IT network for short-circuit</li> <li>at 400 V</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 8 hp 10 hp Yes magnetic gL/gG 63 A
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>design of the short-circuit trip</li> <li>design of the fuse link for IT network for short-circuit</li> <li>at 400 V</li> <li>at 500 V</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 8 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A
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<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the fuse link for IT network for short-circuit</li> <li>protection of the main circuit</li> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> </ul> </li> <li>Installation/ mounting/ dimensions</li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 8 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A gL/gG 40 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link for IT network for short-circuit protection of the main circuit</li> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 8 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A gL/gG 40 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 220/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit <ul> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> </ul> </li> <li>Installation/ mounting/ dimensions mounting position fastening method height</li></ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 3 hp 8 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 40 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link for IT network for short-circuit protection of the main circuit</li> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> </ul> </li> </ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 3 hp 3 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 40 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link for IT network for short-circuit protection of the main circuit</li> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> </ul></li></ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 3 hp 3 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 40 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
<ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>for 3-phase AC motor</li> <li>at 200/208 V rated value</li> <li>for 3-phase AC motor</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>at 460/480 V rated value</li> <li>at 575/600 V rated value</li> </ul> </li> <li>Short-circuit protection <ul> <li>product function short circuit protection</li> <li>design of the short-circuit trip</li> <li>design of the fuse link for IT network for short-circuit protection of the main circuit <ul> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> </ul> </li> <li>Installation/ mounting/ dimensions <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>depth</li> <li>required spacing</li> </ul> </li> </ul></li></ul>	12.5 A 0.5 hp 2 hp 3 hp 3 hp 3 hp 8 hp 10 hp Yes magnetic gL/gG 63 A gL/gG 50 A gL/gG 50 A gL/gG 40 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm

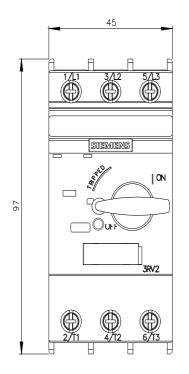
dowowordo	30 mm
— downwards	
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	20
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
— 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
	0 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
<ul> <li>for main contacts</li> </ul>	
<ul> <li>— solid or stranded</li> </ul>	2x (0,75 2,5 mm²), 2x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
<ul> <li>at AWG cables for main contacts</li> </ul>	2x (18 14), 2x 12
tightening torque	
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv size 2
design of the thread of the connection screw	
for main contacts	M3
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	10 a
IEC 61508	
protection class IP on the front according to IEC 60529	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
display version for switching status	Handle
Certificates/ approvals	
General Product Approval	

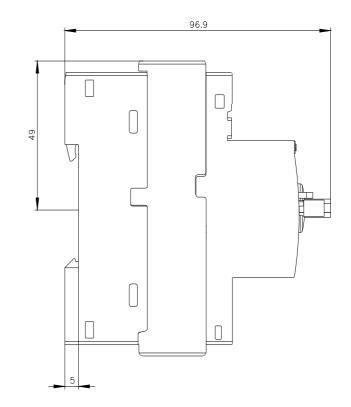
S.	<u>Confirmation</u>	CCC		<u>KC</u>	EHC		
Declaration of Con	formity	Test Certificates		Marine / Shipping			
UK CA	CE EG-Konf.	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS		
Marine / Shipping					other		
	Lloyd's Register urs	PRS	RINA	RMRS	<u>Confirmation</u>		
other	Railway						
UDE VDE	Vibration and Shock	<u>Confirmation</u>					
Further information							
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2311-1KC10 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-1KC10 Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-1KC10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-1KC10⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current							

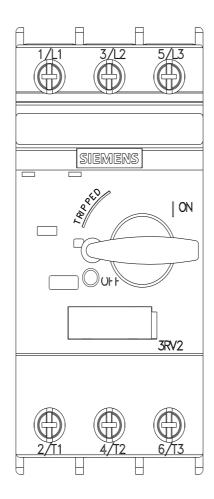
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-1KC10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-1KC10&objecttype=14&gridview=view1

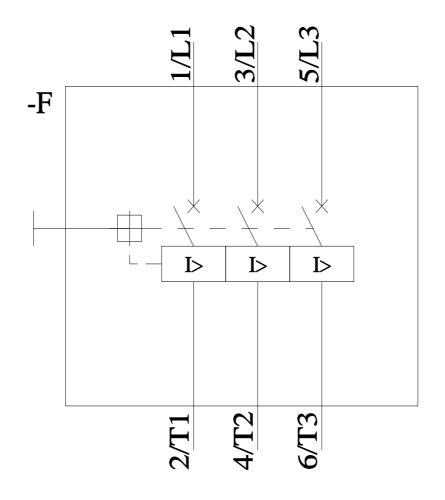






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