SIEMENS

Data sheet 3RV2311-0CC20



Circuit breaker size S00 for starter combination Rated current 0.25 A N-release 3.3 A Spring-type terminal Standard switching capacity

product type designation design of the product product type designation 3RV2 General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch eat AC in hot operating state eat AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit confidence of auxiliary contacts typical confidence of a	product brand name	SIRIUS
Separal technical data	product designation	Circuit breaker
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch e at AC in hot operating state • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit • of the main contacts typical • of auxiliary contacts typical • of auxiliar	design of the product	For starter combinations
size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit of the main contacts typical of auxiliary contacts typical of auxiliary contacts typical lectrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during storage ambient temperature during storage ambient temperature during stransport relative humidity during operation operating voltage rated value operating voltage at AC-3 rated value maximum power of the conditions size of contactor can be company-specific soon, SO soon so	product type designation	3RV2
size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state	General technical data	
product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole 1.8 W insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit • of the main contacts typical • of auxiliary contacts typical • of auxil	size of the circuit-breaker	S00
power loss [W] for rated value of the current • at AC in hot operating state	size of contactor can be combined company-specific	S00, S0
at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point between main and auxiliary circuit betwe	product extension auxiliary switch	Yes
at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value surge voltage resistance rated value as with a control of the control of th	power loss [W] for rated value of the current	
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit • both resistance acc. to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation • operating voltage rated value • operating voltage at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz	 at AC in hot operating state 	5.5 W
surge voltage resistance rated value maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit 400 V shock resistance acc. to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit 3 • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value • operating frequency rated value 50 60 Hz		1.8 W
maximum permissible voltage for safe isolation in networks with grounded star point • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit 400 V shock resistance acc. to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical 100 000 electrical endurance (switching cycles) typical 100 000 reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 01.10.2009 00:00:00 Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during operation • ambient temperature during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit • operating voltage rated value • operating voltage rated value • operating frequency rated value 50 60 Hz		690 V
networks with grounded star point • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit 400 V shock resistance acc. to IEC 60068-2-27 mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit • operating voltage rated value • operating requency rated value • operating frequency rated value 50 60 Hz	surge voltage resistance rated value	6 kV
between main and auxiliary circuit shock resistance acc. to IEC 60068-2-27 25g / 11 ms mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical leectrical endurance (switching cycles) typical leectrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum oambient temperature during operation oambient temperature during storage ambient temperature during storage ambient temperature during transport relative humidity during operation operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value operating frequency rated value show the first missing to the content of the		
shock resistance acc. to IEC 60068-2-27 mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during transport relative humidity during operation ambient operating voltage rated value operating voltage at AC-3 rated value of the main conditions 100 000 100 00	 between main and auxiliary circuit 	400 V
mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical lectrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ombient temperature during operation ombient temperature during storage ombient temperature during transport relative humidity during operation ambient temperature during transport relative humidity during operation ombient temperature during transport relative humidity during operation ombient temperature during transport ombient temperatu	between main and auxiliary circuit	400 V
of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during storage ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit operating voltage rated value operating voltage at AC-3 rated value maximum of the main conditions 100 000 100 000 01.10.2009 00:00:00 01.10.2009 00:00:00 02 +60 °C -20 +60 °C -50 +80 °C -5060 U	shock resistance acc. to IEC 60068-2-27	25g / 11 ms
 of auxiliary contacts typical electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) O1.10.2009 00:00:00 Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation ambient temperature during storage ambient temperature during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz 	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit • operating voltage at AC-3 rated value operating frequency rated value 50 60 Hz	 of the main contacts typical 	100 000
reference code acc. to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation • ambient temperature during transport relative humidity during operation Main circuit number of poles for main current circuit • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz	of auxiliary contacts typical	100 000
Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport relative humidity during operation • ambient temperature during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz	electrical endurance (switching cycles) typical	100 000
installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during storage • ambient temperature during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz	reference code acc. to IEC 81346-2	Q
installation altitude at height above sea level maximum • ambient temperature during operation • ambient temperature during storage • ambient temperature during transport • ambient temperature during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz	Substance Prohibitance (Date)	01.10.2009 00:00:00
 ambient temperature during operation ambient temperature during storage ambient temperature during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value operating frequency rated value 50 60 Hz 	Ambient conditions	
 ambient temperature during storage ambient temperature during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value 60 Hz 	installation altitude at height above sea level maximum	2 000 m
 ambient temperature during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value 60 Hz 	 ambient temperature during operation 	-20 +60 °C
relative humidity during operation 10 95 % Main circuit number of poles for main current circuit • operating voltage rated value • operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz	 ambient temperature during storage 	-50 +80 °C
Main circuit number of poles for main current circuit 3 ● operating voltage rated value 690 V ● operating voltage at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz	 ambient temperature during transport 	-50 +80 °C
number of poles for main current circuit operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz	relative humidity during operation	10 95 %
 operating voltage rated value operating voltage at AC-3 rated value maximum operating frequency rated value 50 60 Hz 	Main circuit	
● operating voltage at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz	number of poles for main current circuit	3
● operating voltage at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz	operating voltage rated value	690 V
operating frequency rated value 50 60 Hz		690 V
operational current rated value 0.25 A		50 60 Hz
	operational current rated value	0.25 A

operational current at AC-3 at 400 V rated value	0.25 A
operating power at AC-3	
• at 230 V rated value	40 W
 at 400 V rated value 	60 W
at 500 V rated value	90 W
at 690 V rated value	120 W
operating frequency at AC-3 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	A.I.
ground fault detection	No
phase failure detection	No
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	100 kA
at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (Icu)	
• 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 	100 kA
• at AC at 690 V rated value	100 kA
response value current of instantaneous short-circuit trip unit	3.3 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.25 A
at 600 V rated value at 600 V rated value	0.25 A
	0.23 A
Short-circuit protection	V.
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
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	
• 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	O IIIII
Hor grounded parts at 500 v Hownwards	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	
product function removable terminal for auxiliary and	No
control circuit	
type of electrical connection	
for main current circuit	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
 for main contacts 	
— solid or 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)
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 acc. to SN 31920 	5 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
with high demand rate acc. to SN 31920	50 %

50 FIT

10 y

touch protection on the front acc. to IEC 60529

Certificates/ approvals

failure rate [FIT]

General Product Approval

display version for switching status

Declaration of Conformity





• with low demand rate acc. to SN 31920

T1 value for proof test interval or service life acc. to

protection class IP on the front acc. to IEC 60529



<u>KC</u>

finger-safe, for vertical contact from the front



Miscellaneous

Declaration of Conformity

Test Certificates

Marine / Shipping



Special Test Certificate Type Test
Certificates/Test
Report







Marine / Shipping other









Confirmation



Railway

Vibration and Shock Confirmation

Further information

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=3RV2311-0CC20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-0CC20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0CC20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

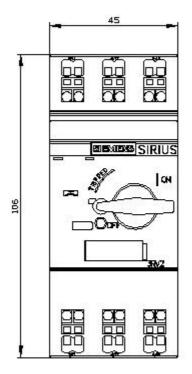
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC20\&lang=ender.siemens.com/bilddb/cax_de.aspx.siemens.com/bi$

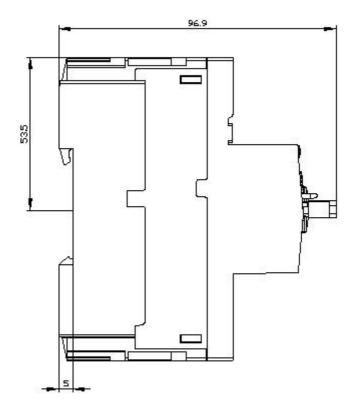
Characteristic: Tripping characteristics, I2t, Let-through current

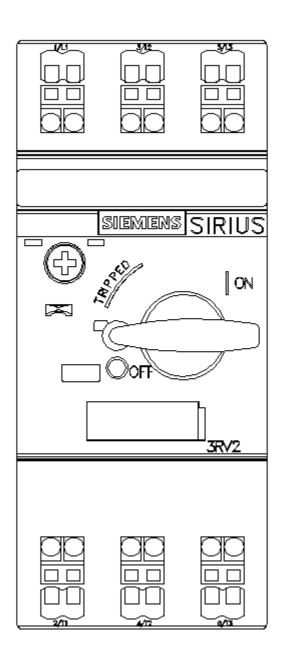
https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0CC20/char

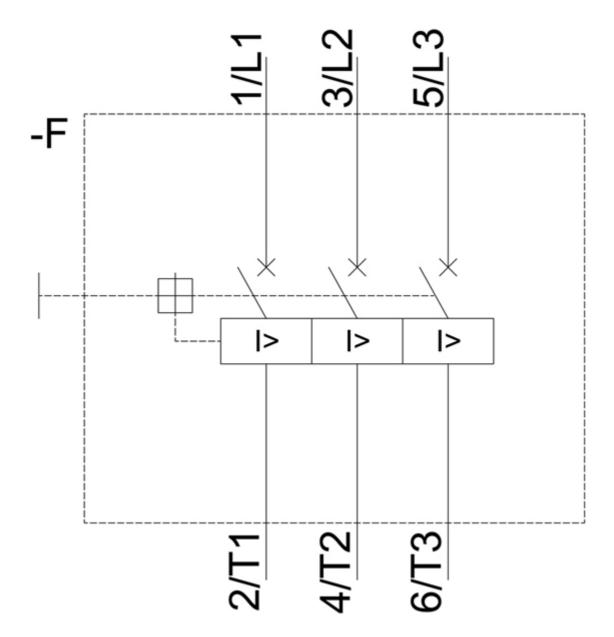
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-0CC20&objecttype=14&gridview=view1









last modified: 12/15/2020 ☑