## **SIEMENS**

Data sheet 3RV2311-0AC10



Circuit breaker size S00 for starter combination Rated current 0.16 A N-release 2.1 A screw terminal Standard switching capacity

product designation design of the product product type designation General technical data 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 per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 effetical endurance (switching cycles) of the main contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical installation at height above sea level maximum ambient temperature during operation -20 +60 °C electrical endurange during storage during typical to 00 00 electrical endurance (Date) -50 +80 °C electrical endurge operation -50 +80 °C electrical endurge operation -50 +80 °C electrical endurge operation -50 +80 °C electrical endurgiffunding operation -50 +80 °C	product brand name	SIRIUS
product type designation  General technical data  size of the circuit-breaker S00, S0 size of contactor can be combined company-specific S00, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current  • at AC in hot operating state 5.5 W • 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 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 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	product designation	Circuit breaker
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 per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according 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 according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport  S00  S00, S0  S00 S00, S0 S00 S00, S0 S00 S00, S0 S0 S00, S0 S00, S0 S0 S00, S0 S00, S0 S00, S0 S00, S0 S0 S00, S0 S00, S0 S0 S00, S0 S0 S00, S0 S00, S0 S	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  surge voltage resistance rated value  shock resistance according 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 according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum  ambient temperature • during operation • during storage • during transport  500. S00  500. S00  600. S00  600. V  600. V	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 • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport  -50 +80 °C -50 +80 °C	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 insulation voltage with degree of pollution 3 at AC rated value  surge voltage resistance rated value  shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical polyonoperation installation altitude at height above sea level maximum  ambient temperature • during operation • during storage • during transport  yes  5.5 W  5.5 W  6.8 W  1.8 W  1.8 W  1.8 W  1.90 V  2.5g / 11 ms  1.00 000  2.5g / 11 ms  1.00 000  2.00 000	size of the circuit-breaker	S00
power loss [W] for rated value of the current  • at AC in hot operating state 5.5 W  • at AC in hot operating state per pole 1.8 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  -50 +80 °C  • during transport -50 +80 °C	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 shock resistance according to IEC 60068-2-27  mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage of during transport  5.5 W  1.8 W  690 V  100 00  6 kV  500 00  6 kV  100 000	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 shock resistance according 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 according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage of during transport  1.8 W 690 V  1.8 W 690 V  1.8 W 690 V  25g / 11 ms  100 000	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  shock resistance according to IEC 60068-2-27  per chanical service life (switching cycles)  of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage of divided at height above during transport  690 V  6 kV  56 kV  57 kV  57 kV  58 kV	<ul> <li>at AC in hot operating state</li> </ul>	5.5 W
value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms  mechanical service life (switching cycles)  of the main contacts typical of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage of during transport  6 kV  25g / 11 ms  100 000	<ul> <li>at AC in hot operating state per pole</li> </ul>	1.8 W
shock resistance according to IEC 60068-2-27  shock resistance according to IEC 60068-2-27  e of the main contacts typical e of auxiliary contacts typical electrical endurance (switching cycles) typical reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature e during operation during storage during transport  25g / 11 ms  25g / 11 ms  25g / 11 ms  2000  100 000  100	ŭ i	690 V
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	surge voltage resistance rated value	6 kV
<ul> <li>of the main contacts typical</li> <li>of auxiliary contacts typical</li> <li>electrical endurance (switching cycles) typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>100 000</li> <li>Q</li> <li>Q</li> <li>Q</li> <li>U/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>2 000 m</li> <li>ambient temperature</li> <li>during operation</li> <li>-20 +60 °C</li> <li>during transport</li> <li>-50 +80 °C</li> </ul>	shock resistance according to IEC 60068-2-27	25g / 11 ms
<ul> <li>of auxiliary contacts typical</li> <li>electrical endurance (switching cycles) typical</li> <li>reference code according to IEC 81346-2</li> <li>Substance Prohibitance (Date)</li> <li>10/01/2009</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>-50 +80 °C</li> <li>-50 +80 °C</li> </ul>	mechanical service life (switching cycles)	
electrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -50 +80 °C	<ul> <li>of the main contacts typical</li> </ul>	100 000
reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  -50 +80 °C	of auxiliary contacts typical	100 000
Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  -50 +80 °C	electrical endurance (switching cycles) typical	100 000
Ambient conditions installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  -20 +60 °C  -50 +80 °C  -50 +80 °C	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  • during transport  -20 +60 °C  -50 +80 °C  -50 +80 °C	Substance Prohibitance (Date)	10/01/2009
ambient temperature  • during operation  • during storage  • during transport  -20 +60 °C  -50 +80 °C  -50 +80 °C	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>-20 +60 °C</li> <li>-50 +80 °C</li> </ul>	installation altitude at height above sea level maximum	2 000 m
<ul> <li>during storage</li> <li>during transport</li> <li>-50 +80 °C</li> <li>-50 +80 °C</li> </ul>	ambient temperature	
◆ during transport     −50 +80 °C	<ul> <li>during operation</li> </ul>	-20 +60 °C
	<ul> <li>during storage</li> </ul>	-50 +80 °C
relative hymidity during energtion	during transport	-50 +80 °C
relative numinity during operation 10 95 %	relative humidity during operation	10 95 %
Main circuit	Main circuit	
number of poles for main current circuit 3	number of poles for main current circuit	3
operating voltage	operating voltage	
• rated value 20 690 V	rated value	20 690 V
• at AC-3 rated value maximum 690 V	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
• at AC-3e rated value maximum 690 V	<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value 50 60 Hz	operating frequency rated value	50 60 Hz
operational current rated value 0.16 A	operational current rated value	0.16 A
operational current	operational current	
• at AC-3 at 400 V rated value 0.16 A	<ul> <li>at AC-3 at 400 V rated value</li> </ul>	0.16 A
• at AC-3e at 400 V rated value 0.16 A	• at AC-3e at 400 V rated value	0.16 A

operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	O MAN
— at 230 V rated value	0 kW 0 kW
— at 400 V rated value — at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	0.1 KVV
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	TO THE
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 (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
breaking capacity operating short-circuit current (Ics) 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
response value current of instantaneous short-circuit trip unit	2.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.16 A
• at 600 V rated value	0.16 A
Short-circuit protection	
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	97 mm
width	45 mm
depth	97 mm
required spacing	
<ul> <li>for grounded parts at 400 V</li> </ul>	
— 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
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm

— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	o min
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	3 Hilli
— 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	screw-type 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 (0,75 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	
<ul> <li>for main contacts</li> </ul>	M3
Safety related data	
B10 value	
with high demand rate according to SN 31920	5 000
proportion of dangerous failures	
<ul> <li>with low demand rate according to SN 31920</li> </ul>	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
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
Certificates/ approvals	
General Product Approval	



Confirmation





<u>KC</u>



**Declaration of Conformity Test Certificates** Marine / Shipping



## Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

## **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=3RV2311-0AC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-0AC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0AC10

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

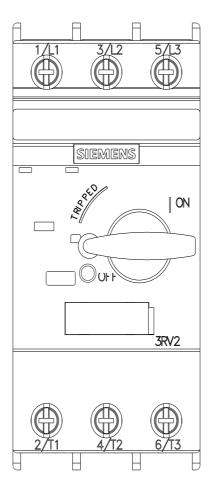
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2311-0AC10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0AC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-0AC10&objecttype=14&gridview=view1



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