## **SIEMENS**

Data sheet 3RV2311-0KC10



Circuit breaker size S00 for starter combination Rated current 1.25 A N-release 16 A screw terminal Standard switching capacity

product designation design of the product for starter combinations product type designation 3RV2  General technical data size of the circuit-breaker size of the circuit-breaker size of the 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	product brand name	SIRIUS
product type designation  General technical data  size of the circuit-breaker 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 • 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 80068-2-27 get / 11 ms  mechanical service life (switching cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of auxiliary contacts (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 • during transport relative humidity during operation  Main circuit number of poles for main current circuit operating voltage • rated value • at AC-3 arted value maximum • at AC-3 arted value and current • at AC-3 arted value maximum • at AC-3 arted value value • at AC-3 arted value	product designation	Circuit breaker
Second Size of the circuit-breaker   S00	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 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 100 000  reference code according to IEC 81346-2 Quuly Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit operating requency rated value at AC-3 aread value maximum operating frequency rated value operational current • at AC-3 at 400 V rated value  1.25 A	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 per pole  • 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 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 ambient temperature  • during operation -20 +60 °C  • during storage -50 +80 °C  relative humidity during operation 10 95 %  Main circuit 10 95 %  Main circuit 20 690 V  • at AC-3 arted value maximum 690 V  operating frequency rated value 50 60 Hz  operational current  • at AC-3 at 400 V rated value 1.25 A	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 • at AC in hot operating state per pole • at AC in hot operating state per pole  • at AC in hot operating state per pole  • at AC in hot operating state per pole  • auxiliation 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  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  Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation • during storage • during transport • during transport  -50 +80 °C  relative humicity during operation  (a) +50 °C  relative humicity during operation  • at AC-3 reted value maximum  690 V  • at AC-3 reted value maximum • at AC-3 reted value maximum • at AC-3 at 400 V rated value  1.25 A  poperational current • at AC-3 at 400 V rated value  1.25 A	size of the circuit-breaker	S00
power loss [W] for rated value of the current  • at AC in hot operating state 7.25 W  • at AC in hot operating state 9	size of contactor can be combined company-specific	S00, S0
at AC in hot operating state per pole 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 25g / 11 ms  mechanical service life (switching cycles)  of the main contacts typical of the main contacts typical of auxiliary contacts typical lelectrical 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 relative humidity during operation  Main circuit  number of poles for main current circuit operating voltage rated value at AC-3 rated value maximum operation leaf AC-3 at 400 V rated value operational current at AC-3 at 400 V rated value  operational current at AC-3 at 400 V rated value  leaf AC-3 at 400 V rated value  at AC-3 at 400 V rated value  operational current  at AC-3 at 400 V rated value  leaf AC-3 at 400 V rated value  at AC-3 at 400 V rated value  leaf AC-3 at 400 V rated value  at AC-3 at 400 V rated value  leaf AC-3 at 400 V rated value	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 25g / 11 ms  mechanical service life (switching cycles) of the main contacts typical of auxiliary contacts typical leactrical endurance (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical electrical endurance (switching cycles) typical preference code according to IEC 81346-2 Substance Prohibitance (Date)  Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring operation olduring storage olduring storage olduring transport relative humidity during operation  Main circuit number of poles for main current circuit operating voltage arated value at AC-3 rated value maximum en at AC-3 rated value maximum en at AC-3 rated value maximum operational current rated value operational current rated value 1.25 A operational current at AC-3 at 400 V rated value 1.25 A	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  mechanical service life (switching cycles)  of the main contacts typical  of auxiliary contacts typical  ledetrical endurance (switching cycles) typical  reference code according to IEC 81346-2  Quutiliary contacts typical  reference code according to IEC 81346-2  Quutiliary conditions  installation altitude at height above sea level maximum  ambient conditions  installation altitude at height above sea level maximum  ambient temperature  of during operation  of during storage  of during transport  relative humidity during operation  mumber of poles for main current circuit  operating voltage  orated value  at AC-3a rated value maximum  operating requency rated value  operational current rated value  operational current  ot AC-3 at 400 V rated value  1.25 A  operational current  ot AC-3 at 400 V rated value  1.25 A	<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
value  surge voltage resistance rated value shock resistance according to IEC 60068-2-27 shock resistance according to IEC 60068-2-27 of the main contacts typical 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 during storage of during storage of during transport relative humidity during operation  Main circuit number of poles for main current circuit operating voltage rated value at AC-3 rated value maximum operating frequency rated value operational current rated value operational current rated value operational current rated value operational current rated value  at AC-3 at 400 V rated value 1.25 A	<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W
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 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 relative humidity during operation  mumber of poles for main current circuit operating voltage or at AC-3 rated value maximum at AC-3 at 400 V rated value operational current of the main current at 00 000  100	0 0	690 V
mechanical service life (switching cycles)  • of the main contacts typical • of auxiliary contacts typical lou 000 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 • during operation • during storage • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit oe at AC-3 ar tated value maximum • at AC-3 ar tated value operational current operational current rated value operational current • at AC-3 at 400 V rated value  1.25 A  100 000  100 0	surge voltage resistance rated value	6 kV
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     o during operation     oduring storage     oduring transport     relative humidity during operation  Inumber of poles for main current circuit  operating voltage     otate AC-3 rated value maximum     operating frequency rated value     operational current     otate     overational current     operational current     operational current     overational current     overa	shock resistance according to IEC 60068-2-27	25g / 11 ms
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     ouring operation     during storage     during transport relative humidity during operation  Main circuit number of poles for main current circuit operating voltage     at AC-3 rated value maximum     at AC-3 at 400 V rated value     our at AC-3 at 400 V rated value     100 000	mechanical service life (switching cycles)	
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 • during operation • during storage • during transport relative humidity during operation  Main circuit number of poles for main current circuit operating voltage • at AC-3 rated value maximum  690 V operating frequency rated value operational current • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value 1.25 A	<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 relative humidity during operation  Main circuit  number of poles for main current circuit  • at AC-3 rated value maximum  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  • at AC-3 at 400 V rated value  10/01/2009  10/01/2009  10/01/2009  10/01/2009  10/01/2009  10/01/2009  20 +60 °C  -20 +60 °C  -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  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  operating voltage • rated value • at AC-3 rated value maximum  operating frequency rated value  operational current rated value  operational current rated value  1.25 A  10/01/2009  10/01/2009  20 00 m  20 00 m  20 00 m  30 0C  20 480 °C  40 00 00 00 00 00 00 00 00 00 00 00 00 0	electrical endurance (switching cycles) typical	100 000
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport  relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  operating voltage • rated value • at AC-3 rated value maximum  operating frequency rated value  operating frequency rated value  operational current rated value  1.25 A  2000 m  2000	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage • during transport • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value  operational current rated value  operational current rated value  1.25 A  operational current • at AC-3 at 400 V rated value  1.25 A	Substance Prohibitance (Date)	10/01/2009
ambient temperature  • during operation  • during storage  • during transport  relative humidity during operation  Main circuit  number of poles for main current circuit  operating voltage  • rated value  • at AC-3 rated value maximum  operating frequency rated value  operating requency rated value  operational current rated value  1.25 A  operational current  • at AC-3 at 400 V rated value  1.25 A	Ambient conditions	
<ul> <li>during operation</li> <li>during storage</li> <li>during transport</li> <li>to +80 °C</li> <li>relative humidity during operation</li> <li>mumber of poles for main current circuit</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>operating frequency rated value</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>1.25 A</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>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>operating voltage</li> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>eat AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>1.25 A</li> </ul> operational current <ul> <li>at AC-3 at 400 V rated value</li> <li>1.25 A</li> </ul>	ambient temperature	
<ul> <li>◆ during transport</li> <li>relative humidity during operation</li> <li>10 95 %</li> </ul> Main circuit <ul> <li>number of poles for main current circuit</li> <li>operating voltage</li> <li>• rated value</li> <li>• at AC-3 rated value maximum</li> <li>• at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>• at AC-3 at 400 V rated value</li> <li>1.25 A</li> </ul>	<ul><li>during operation</li></ul>	-20 +60 °C
relative humidity during operation  10 95 %  Main circuit  number of poles for main current circuit  operating voltage  • rated value  • rated value maximum  690 V  • at AC-3 rated value maximum  690 V  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  1.25 A	<ul> <li>during storage</li> </ul>	-50 +80 °C
Main circuit         number of poles for main current circuit       3         operating voltage       20 690 V         • rated value       20 690 V         • at AC-3 rated value maximum       690 V         operating frequency rated value       50 60 Hz         operational current rated value       1.25 A         operational current       • at AC-3 at 400 V rated value       1.25 A	during transport	-50 +80 °C
number of poles for main current circuit  operating voltage  orated value otal AC-3 rated value maximum operating frequency rated value  operating frequency rated value  operational current operational current otal AC-3 at 400 V rated value  1.25 A	relative humidity during operation	10 95 %
operating voltage  • rated value  • at AC-3 rated value maximum  • at AC-3e rated value maximum  690 V  operating frequency rated value  operational current rated value  • at AC-3 at 400 V rated value  1.25 A	Main circuit	
<ul> <li>rated value</li> <li>at AC-3 rated value maximum</li> <li>690 V</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>1.25 A</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>1.25 A</li> </ul>	number of poles for main current circuit	3
<ul> <li>at AC-3 rated value maximum</li> <li>at AC-3e rated value maximum</li> <li>690 V</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>1.25 A</li> </ul>	operating voltage	
<ul> <li>at AC-3e rated value maximum</li> <li>operating frequency rated value</li> <li>operational current rated value</li> <li>operational current</li> <li>at AC-3 at 400 V rated value</li> <li>1.25 A</li> </ul>	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 1.25 A operational current  • at AC-3 at 400 V rated value 1.25 A	<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
operational current rated value  1.25 A  operational current  • at AC-3 at 400 V rated value  1.25 A	at AC-3e rated value maximum	690 V
operational current	operating frequency rated value	50 60 Hz
• at AC-3 at 400 V rated value 1.25 A	operational current rated value	1.25 A
	operational current	
• at AC-3e at 400 V rated value 1.25 A	• at AC-3 at 400 V rated value	1.25 A
	• at AC-3e at 400 V rated value	1.25 A

operating power	
• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.4 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.4 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.8 kW
operating frequency	45.40
• 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	No
ground fault detection     phase failure detection	No No
phase failure detection      brooking consolity maximum short circuit current (lou)	No
breaking capacity maximum short-circuit current (Icu)  • at AC at 240 V rated value	100 kA
at AC at 400 V rated value      at AC at 400 V rated value	100 KA 100 KA
	100 KA
<ul> <li>at AC at 500 V rated value</li> <li>at AC at 690 V rated value</li> </ul>	100 KA
breaking capacity operating short-circuit current (Ics)	100 KA
at AC	
at 240 V rated value	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
<ul> <li>at 690 V rated value</li> </ul>	100 kA
response value current of instantaneous short-circuit trip unit	16 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	1.25 A
at 600 V rated value	1.25 A
yielded mechanical performance [hp]	
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	0.5 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 500 V	gL/gG 16 A
● at 690 V	gL/gG 16 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	97 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts at 400 V	20 mm
— 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		
— 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	
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)	
at AWG cables for main contacts	2x (18 14), 2x 12	
tightening torque		
for main contacts with screw-type terminals	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	3 000	
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	
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





Type Test Certificates/Test Report Special Test Certificate





Marine / Shipping

other











Confirmation

other

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=3RV2311-0KC10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2311-0KC10}$ 

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

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0KC10}$ 

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

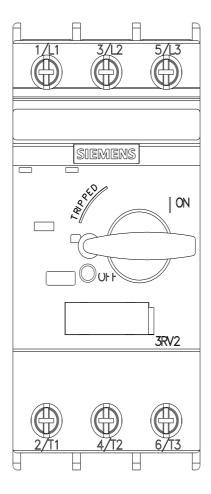
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2311-0KC10&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0KC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-0KC10&objecttype=14&gridview=view1



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