3RV2011-1KA15-Z W97





Circuit breaker size S00 for motor protection, Class 10 A-release 9...12 A N-release 163 A Screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC Multi-unit packaging Pack = 12 units

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
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	
 at AC in hot operating state 	9.25 W
 at AC in hot operating state per pole 	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)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
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
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	9 12.5 A
operating voltage	
• rated value	20 690 V
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	12.5 A
operational current	

10.5 A
12.5 A
12.5 A
3 kW
5.5 kW
7.5 kW
7.5 kW
3 kW
5.5 kW
7.5 kW
7.5 kW
7.0 KW
15 1/h
15 1/h
13 1/11
transverse
transverse
1
1
0
2 A
0.5 A
0.5 A
0.5 A
1 A
0.15 A
0.15 A
0.15 A
0.15 A No
No
No Yes
No Yes CLASS 10
No Yes CLASS 10
No Yes CLASS 10 thermal
No Yes CLASS 10 thermal
No Yes CLASS 10 thermal 100 kA 100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 42 kA 44 kA 100 kA 42 kA 45 kA 45 kA 46 kA 46 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 42 kA 44 kA 163 A
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 100 kA 100 kA 1100 kA
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 42 kA 44 kA 103 A 12.5 A 12.5 A 12.5 A
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 42 kA 4 kA 163 A 12.5 A 12.5 A 0.5 hp 2 hp
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA 163 A 12.5 A 12.5 A 0.5 hp 2 hp 3 hp 3 hp
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 4 kA 103 A 12.5 A 12.5 A 0.5 hp 2 hp 3 hp 3 hp 8 hp
No Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA 163 A 12.5 A 12.5 A 0.5 hp 2 hp 3 hp 3 hp

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	mag.iou
for short-circuit protection of the auxiliary switch required	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A)
design of the fuse link for IT network for short-circuit protection of the main circuit	,
• 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 DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• 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	V
— 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
• for grounded parts at 690 V	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	
type of electrical connection	
• for main current circuit	screw-type terminals
for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	Top and socioni
type of connectable conductor cross-sections	
• for main contacts	2v (0.75 2.5 mm²) 2v 4 mm²
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for main contacts	2x (18 14), 2x 12
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)

 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
tightening torque	
 for main contacts with screw-type terminals 	0.8 1.2 N·m
 for auxiliary 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
 of the auxiliary and control 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 IEC 61508	10 a
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	
Further information	

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1KA15-Z W97

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1KA15-Z W97

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA15-Z W97

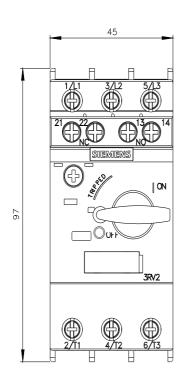
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

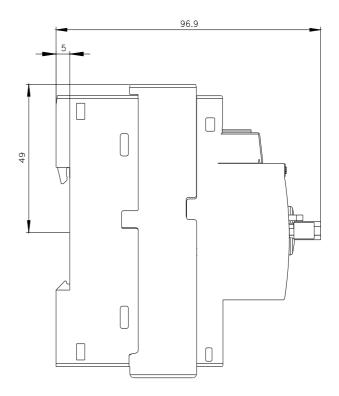
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1KA15-Z W97&lang=en

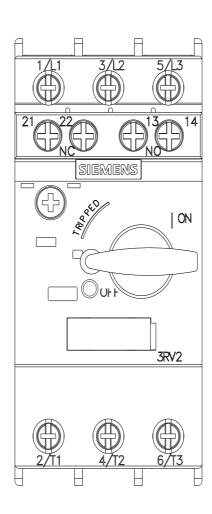
Characteristic: Tripping characteristics, I2t, Let-through current

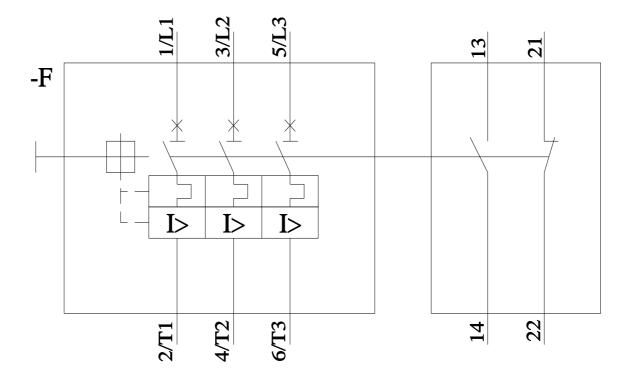
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1KA15-Z W97/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1KA15-Z W97&objecttype=14&gridview=view1









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