SIEMENS

Data sheet 3RV2011-0GA15





Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC



size of the circuit-breaker \$00 size of contactor can be combined company-specific \$00, \$0 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 \$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 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) \$1001/2009 SVHC substance name Lead - 7439-92-1 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 relative humidity during operation \$10 95 %	product brand name	SIRIUS
product type designation 3RV2 Size of the circuit-breaker Size of the circuit-breaker Size of the circuit-breaker Size of contactor can be combined company-specific SOO, SO product extension auxiliary switch Yes power loss [W] for rated value of the current • at AC in hot operating state S.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 60 kV surge voltage resistance rated value 60 kV surge voltage 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 • of auxiliary contacts typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/1/2009 SVHC substance name Lead - 7439-92-1 mistallation altitude at height above sea level maximum 2000 m ambient temperature • during operation 40 current circuit 30 c	product designation	Circuit breaker
Size of the circuit-breaker Son	design of the product	For motor protection
size of the circuit-breaker \$00 size of contactor can be combined company-specific \$00, \$0 product extension auxiliary switch Yes power loss [W] for rated value of the current	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 surge voltage resistance rated value 680 V surge voltage resistance rated value 680 V surge voltage resistance rated value 6 k V shock resistance according to EC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxili	General technical data	
product extension auxiliary switch power loss [W] for rated value of the current at AC in hot operating state 5.5 W at AC in hot operating state 9.1 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 (operating cycles) of the main contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/1/2009 SVHC substance name Lead - 7439-92-1 whibient conditions Installation altitude at height above sea level maximum 2 000 m ambient temperature of utring storage 50 +80 °C of during transport 50 +80 °C relative humidity during operation 10 95 % Ablic circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage or at AC-3 rated value maximum 690 V or at AC-3 rated value maximum 690 V	size of the circuit-breaker	S00
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 • aut AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value • 690 V surge voltage resistance rated value • 680 V shock resistance according to IEC 60068-2-27 • 25g / 11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 ***This possible to conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation 10 95 % ***Abin circuit** number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V	size of contactor can be combined company-specific	S00, S0
• at AC in hot operating state • 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 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 • of auxiliary contacts typical • of according to IEC 81346-2 Q Substance Prohibitance (Date) 8VHC substance name Lead - 7439-92-1 **Whibert conditions** installation altitude at height above sea level maximum abiliant temperature • during operation • during storage • during transport ed during transport **adjustable current response value current of the current-dependent overload release **operating voltage • rated value • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V	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 6 kV surge voltage resistance according to IEC 60068-2-77 25g / 11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts (page 4) • of auxiliary contacts typical • of auxiliary contacts (page 4) • of auxiliary contacts typical • of auxiliary contacts typica	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 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical lectrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical volume (Oate) substance Prohibitance (Date) SVHC substance Prohibitance (Date) Volume (Oate)	 at AC in hot operating state 	5.5 W
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 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature eluring storage -50 +80 °C eluring 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 operating voltage e rated value - 4 AC-3 rated value maximum 690 V e at AC-3 rated value maximum 690 V	 at AC in hot operating state per pole 	1.8 W
shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of the main contacts typical of auxiliary contacts typical lou 000 electrical endurance (operating cycles) typical lou 000 electrical endurance (operating cycles) typical lou 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum during operation during operation during storage during transport relative humidity during operation adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum e of the main contacts typical lou 000 100 000 Q Q Q Q Substance Prohibitance (Date) lou 000 100 000	insulation voltage with degree of pollution 3 at AC rated value	690 V
mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical freference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 42 0 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V 690 V 690 V	surge voltage resistance rated value	6 kV
of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical feference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation during storage during transport elative humidity during operation Jain circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V e at AC-3e rated value maximum 100 0000 100 000 100 000 100 000 100 0000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 10	shock resistance according to IEC 60068-2-27	25g / 11 ms
of auxiliary contacts typical electrical endurance (operating cycles) typical feference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum during operation during storage during transport elative humidity during operation feative humidity during operation mumber of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 100 000	mechanical service life (operating cycles)	
electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum 4 during operation 4 during operation 4 during storage 4 during transport 5 during transport 6 during transport 7 elative humidity during operation 7 dim circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage 1 rated value 1 at AC-3 rated value maximum 6 90 V 1 dead - 7439-92-1 1 0/01/2009 1 0/01/2009 1 0/01/2009 2 0/00 m 3 0/00 m 4 0/00 C	 of the main contacts typical 	100 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 SVHC substance name Lead - 7439-92-1 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 operating voltage • rated value • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V	 of auxiliary contacts typical 	100 000
Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 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 adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum • 690 V • at AC-3e rated value maximum 690 V	electrical endurance (operating cycles) typical	100 000
SVHC substance name Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at C-3e rated value maximum Lead - 7439-92-1 AM39-92-1	reference code according to IEC 81346-2	Q
Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 2 000 m	Substance Prohibitance (Date)	10/01/2009
installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum 2 000 m -20 +60 °C -50 +80 °C -60 +80 °C -60 +80 °C -60 +80 °C -50 +80 °C -60 +80 °	SVHC substance name	Lead - 7439-92-1
ambient temperature • during operation • during storage • during transport • during transport • during transport • 50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	Ambient conditions	
 during operation during storage during transport 50 +80 °C during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V at AC-3e rated value maximum 690 V 	installation altitude at height above sea level maximum	2 000 m
 during storage during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V 4 AC-3e rated value maximum 690 V 690 V 690 V 	ambient temperature	
• during transport 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 operating voltage • rated value • rated value • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V	 during operation 	-20 +60 °C
relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	during storage	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	during transport	-50 +80 °C
number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	relative humidity during operation	10 95 %
adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	Main circuit	
dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	number of poles for main current circuit	3
 rated value at AC-3 rated value maximum at AC-3e rated value maximum 690 V 690 V 		0.45 0.63 A
 at AC-3 rated value maximum at AC-3e rated value maximum 690 V 	operating voltage	
at AC-3e rated value maximum 690 V	rated value	20 690 V
	 at AC-3 rated value maximum 	690 V
operating frequency rated value 50 60 Hz	at AC-3e rated value maximum	690 V
	operating frequency rated value	50 60 Hz

anavational augment rated value	0.62 A
operational current rated value	0.63 A
operational current	0.00 A
• at AC-3 at 400 V rated value	0.63 A
at AC-3e at 400 V rated value	0.63 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.071
• at 24 V	1A
• at 60 V	0.15 A
Protective and monitoring functions	0.1074
product function	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
<u> </u>	
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	400 kA
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
operating short-circuit current breaking capacity (Ics) at AC	400 LA
• 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	8.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.63 A
at 600 V rated value	0.63 A
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
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 690 V	gL/gG 6 A
nstallation/ 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	3 11111
— downwards	30 mm
	30 mm
— upwards	
— at the side	9 mm
• for live parts at 500 V	20
— 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
onnections/ 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	
type of connectable conductor cross-sections	
• for main contacts	
— 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
<u> </u>	
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	Ma
• for main contacts	M3
 of the auxiliary and control contacts 	M3

Safety related data	
product function suitable for safety function	Yes
suitability for use	
 safety-related switching on 	No
safety-related switching OFF	Yes
service life maximum	10 a
test wear-related service life necessary	Yes
proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
 for proof test interval or service life according to IEC 61508 	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

Confirmation



Special Test Certificate

Confirmation







Environment

Environmental Confirmations

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=3RV2011-0GA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0GA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA15

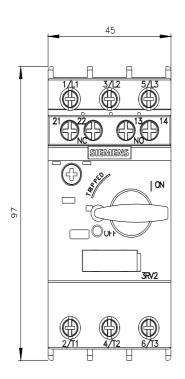
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

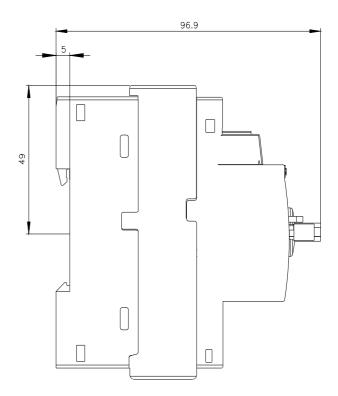
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0GA15&lang=en

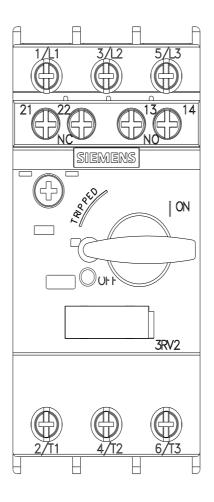
Characteristic: Tripping characteristics, I²t, Let-through current

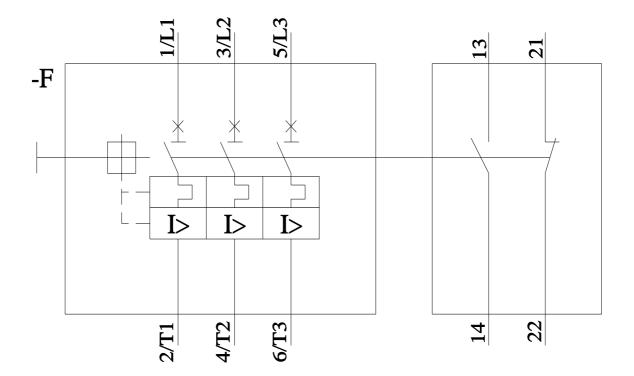
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0GA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0GA15&objecttype=14&gridview=view1









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