SIEMENS

Data sheet 3RV2011-0EA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.28...0.4 A N-release 5.2 A screw terminal Standard switching capacity



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 brand name	SIRIUS
design of the product pre designation 3RV2 3RV2	product designation	Circuit breaker
size of the circuit-breaker S00 S00 S00 S00 S00 S00 S00 S00 S00 S0	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 Yes power loss [W] for rated value of the current • 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 66 kV surge voltage resistance rated value 66 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 • of auxiliary contacts 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 100/1/2009 SVHC substance name 2000 m ambient temperature • during operation 2000 m • during storage 500 m+80 °C • during storage 500 m+80 °C relative humidity during operation 100 m95 % Asin circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0perating voltage • rated value 2000 m • art AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V • at AC-3 rated value maximum 690 V	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 9.18 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6k V 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 electrical endurance (operating cycles) typical 100 000 SWHC substance Prohibitance (Date) 100/1/2009 SVHC substance name Lead - 7439-92-1 Installation altitude at height above sea level maximum 2000 m ambient temperature of uduring storage 50+80 °C eduring transport 50+80 °C relative humidity during operation 1095 % Abin circuit number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage orated value 600 V orat AC-3 rated value maximum 690 V orat AC-3 rated value maximum 690 V orat 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 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 100 000 electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (Date) Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 whibent conditions installation allitude at height above sea level maximum during storage during operation during storage during thrasport elduring thrasport elduring thrasport elduring to foels for main current circuit adjustable current response value current of the current-dependent overload release operating voltage e rated value at AC-3 rated value maximum endo to AC-3 e rated value maximum endo VAC-3 e rated value endo VAC-3 e rated value maximum endo VAC-3 e rated value endo VAC-3 e rated value maximum endo VAC-3 e rated value endo VAC-3 e rated value maximum endo VAC-3 e rated value endo VAC-3 e rated value maximum endo VAC-3 e rated value endo VAC-3	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 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 ***This conditions** installation altitude at height above sea level maximum • during operation • during storage • during transport • during transport • during transport **elative humidity during operation **John Holl of the 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 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 auxiliar	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 ledectrical endurance (operating cycles) typical electrical endurance (operating cycles) typical ledectrical endurance	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 **This conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature of during operation -20 +60 °C of during storage -50 +80 °C relative humidity during operation 10 95 % **Anin circuit** number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release operating voltage or rated value at AC-3 rated value maximum 690 V of the main contacts typical 100 000 a to the main circuit 25 cm. 690 V of the main contacts typical 100 000 a to the main circuit 200 V of the main contacts typical 200 V of the main co	• 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 substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Mobient 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 ar AC-3 rated value maximum e of 00 V at AC-3 rated value maximum e of the main contacts typical lou 0000 100 00	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 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 ambient temperature oduring operation during storage oduring transport relative humidity during operation 10 95 % Asin circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated 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 Q Substance Prohibitance (Date) I0/01/2009 SVHC substance name Lead - 7439-92-1 Ambient conditions installation altitude at height above sea level maximum abient temperature oduring operation during storage during transport elative humidity during operation Insulative turnent response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum electrical endurance (operating cycles) typical 100 0000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 100 000 10	shock resistance according to IEC 60068-2-27	25g / 11 ms
of auxiliary contacts typical electrical endurance (operating cycles) typical freference 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 storage during transport relative humidity during operation Ambient conditions relative humidity during operation Ambient conditions 10 95 % Amain 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	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 oldering operation oldering storage oldering storage oldering transport elative humidity during operation 10 95 % Amini circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum 690 V other at AC-3e rated value maximum 690 V	 of the main contacts typical 	100 000
reference 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 10 95 % Asin 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	 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 % Asin 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	electrical endurance (operating cycles) typical	100 000
SVHC substance name Ambient conditions installation altitude at height above sea level maximum 2 000 m 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 Lead - 7439-92-1 Aunual - 7439-92-1	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 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 • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V	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 10 95 % Alin 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	SVHC substance name	Lead - 7439-92-1
ambient temperature • during operation • during storage • during transport • during transport relative humidity during operation Alin 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 -20 +60 °C -50 +80 °C	Ambient conditions	
 during operation during storage during transport 50 +80 °C during transport 50 +80 °C relative humidity during operation 10 95 % Main circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum at AC-3 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 at AC-3e rated value maximum 690 V 	ambient temperature	
 ◆ 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 • at AC-3e rated value maximum 690 V 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 • 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 		0.28 0.4 A
 at AC-3 rated value maximum at AC-3e rated value maximum 690 V 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

operational current rated value	0.4 A
operational current	
 at AC-3 at 400 V rated value 	0.4 A
at AC-3e at 400 V rated value	0.4 A
operating power	
• at AC-3	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.2 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.2 kW
operating frequency	
• 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	
ground fault detection	No
phase failure detection	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (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
operating short-circuit current breaking capacity (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	5.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.4 A
• at 600 V rated value	0.4 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 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	
— 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	
— 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
 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
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	
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	50 FIT
31920	
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	Time A
safety device type according to IEC 61508-2	Type A
T1 value	40 -
 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



Siemens EcoTech



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=3RV2011-0EA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0EA10

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA10

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

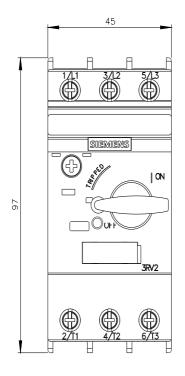
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0EA10&lang=en

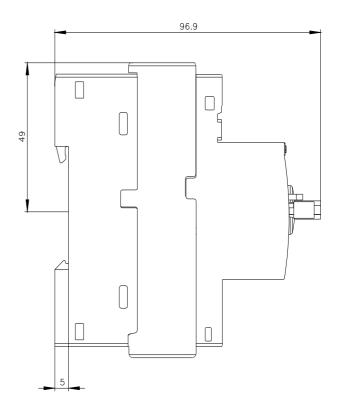
Characteristic: Tripping characteristics, I²t, Let-through current

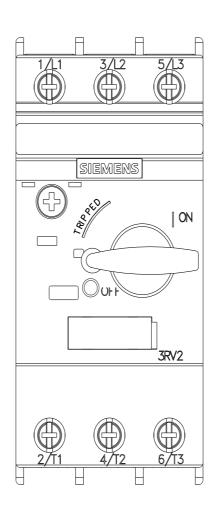
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0EA10/char

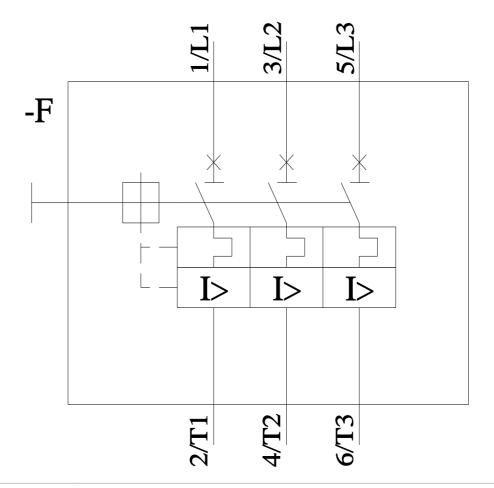
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0EA10&objecttype=14&gridview=view1









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