SIEMENS

Data sheet 3RV2011-0DA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A screw terminal Standard switching capacity





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 	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)	10/01/2009	
SVHC substance name	Lead - 7439-92-1	
Weight	0.278 kg	
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 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	
global warming potential [CO2 eq] total	74.698 kg	
global warming potential [CO2 eq] during manufacturing	1.98 kg	
global warming potential [CO2 eq] during sales	0.134 kg	
global warming potential [CO2 eq] during operation	72.7 kg	
global warming potential [CO2 eq] after end of life	-0.116 kg	
Siemens Eco Profile (SEP)	Siemens EcoTech	

Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.22 0.32 A
type of voltage for main current circuit	AC
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	0.32 A
operational current	
at AC-3 at 400 V rated value	0.32 A
• at AC-3e at 400 V rated value	0.32 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0.09 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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	4.2 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	0.32 A
at 600 V rated value	0.32 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

depth	width	45 mm
vith side by-side mounting at the side 0 mm 0		
with abec-ty-elide mauriting at the side o mm		
• for grounded parts at 400 V - downwards		0 mm
downwards		
- upwards		30 mm
- at the side		
• for live parts at 400 V	•	
- downwards		3 111111
- upwards	·	30 mm
at the side • for grounded parts at 500 V downwards upwards • for live parts at 500 V downwards upwards downwards upwards downwards upwards for live parts at 600 V downwards for wards upwards for wards upwards		
• for grounded parts at 500 V	·	
- downwards - upwards - at the side - or wards - upwards - or wards - upwards - or wards - upwards - upwards - upwards - or wards - upwards - or for grounded parts at 690 V - downwards - or for grounded parts at 690 V - downwards - or wards - upwards - or wards - upwards - or wards - upwards - or wards - or wards - or man - at the side - or man - at the side - or man - or wards - or man - or man current circuit arrangement of electrical connections - or man current circuit arrangement of electrical connections - or man current circuit arrangement of or stranded - entire or stranded - or MWC cables for man contacts - or man contacts with core end processing - or or wards - or wards - or wards - or		3 111111
- upwards		30 mm
• for live parts at 500 V - downwards - upwards - at the side - for grounded parts at 690 V - downwards - upwards - ownwards - ow		
• for live parts at 500 V — downwards — upwards — at the side • for grounded parts at 680 V — downwards — upwards — backwards — upwards — backwards — the side — 30 mm — forwards — forwards — or man — forwards • for live parts at 890 V — downwards • for live parts at 890 V — downwards • for live parts at 890 V — downwards • for live parts at 890 V — downwards — upwards • for man contacts — backwards — upwards — backwards — upwards — backwards — on mm — at the side — 30 mm — the side — on mm — at the side — on mm — backwards — on mm — entry the side — forwards — on mm — entry the side — forwards — on mm — entry the side — forwards — on man cuntact creat arrangement of electrical connection • for main cuntact of connections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts — solid or stranded • for main contacts with screw-type terminals — for main contacts with screw-type terminals — for main contacts with screw-type terminals — solid or stranded • for main contacts with screw-type terminals — solid or stranded • for main contacts with screw-type terminals •	·	
- downwards - upwards - at the side 9 mm • for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - forwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for man cuprent circuit - the side 0 mm - forwards 0 mm - movereds 0 mm - forwards 0 mm - formain current circuit - for main current circuit - for main contacts - solid or stranded - finely stranded with core end processing • for main contacts - for WG cables for main contacts 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) • for main contacts with screw-type terminals 0 .8 1.2 Nm design of screwdriver shaft 1 Diameter 5 to 6 mm - formain contacts - for main contacts 1 Diameter 5 to 6 mm - forwards - for main contacts 1 Diameter 5 to 6 mm - size of the screwdriver shaft 1 Diameter 5 to 6 mm - size of the screwdriver shaft 2 Diameter 5 to 6 mm - size of the screwdriver shaft 2 Diameter 5 to 6 mm - size of the screwdriver shaft 2 Diameter 5 to 6 mm - size of the screwdriver shaft 3 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size of the screwdriver shaft 5 Diameter 5 to 6 mm - size the scr		9 111111
- upwards		20 mm
## at the side ## or at the side ## of the content		
• for grounded parts at 690 V — downwards 50 mm — backwards 0 mm — at the side 50 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm — downwards 50 mm — backwards 0 mm — towards 0 mm — at the side — forwards 0 mm — at the side — forwards 0 mm — at man current circuit screw-type effectrical connection • for main current circuit * or main current circuit • for main contacts • for main contacts with screw-type terminals 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.75 2,5 mm²), 2x 4 mm² 2x (0.75 1,5 mm²), 2x (0.75 2,5 mm²) 2x (18 14), 2x 12 * tightening torque • for main contacts with screw-type terminals 0 8 1,2 Nm design of screwdriver shaft size of the screwdriver shaft product function suitable for safety function • safety-related switching on • safety-related switching on • safety-related switching on • safety-related switching on • safety-related switching of FF yes • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 50FIT	·	
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- upwards		50 mm
backwards at the side 30 mm 30		
- at the side — forwards 0 mm - forwards 0 mm - forlive parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - forwards 0 mm - forwards 0 mm - formactions/ Terminals type of electrical connection of main current circuit arrangement of electrical connections - for main contacts - solid or stranded 2x (0.75 2,5 mm²), 2x 4 mm² - for Main contacts - 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 5 lameters 10 lameter 5 to 6 mm - for main contacts with screw-type terminals 0.8 1,2 N·m design of the thread of the connection screw - for main contacts with screw-type terminals 0.8 1,2 N·m design of the screwdriver tip Pozidir size 2 design of the thread of the connection screw - for main contacts with for sefety function Yes suitability for use - safety-related switching of Pessen 10 a stest wear-related servicing 10 SN 31920 50 % Elto value with high demand rate according to SN 31920 50 000 failure rate [FIT] with low demand rate according to SN 31920 50 000 failure rate [FIT] with low demand rate according to SN 31920 50 000		
- forwards • for live parts at 90 V - downwards - upwards - backwards - backwards - at the side - forwards - formain contacts - for main contacts - for main contacts with screw-type terminals - for main contacts with screw-type terminals - for main contacts - for main		
• for live parts at 690 V - downwards - upwards - backwards - backwards - at the side - at the side - forwards - forwards Connections/ Torminals type of electrical connection • for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft - Diameter 5 to 6 mm Jameter 5 to 6		
- downwards		U mm
- upwards - backwards 0 mm - at the side - forwards 0 mm Connections/Terminals type of electrical connection • for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts • for main contacts with screw-type terminals araingement of the cricuit tightening torque • for main contacts with screw-type terminals design of screwdriver shaft bize of the screwdriver tip design of the thread of the connection screw • for main contacts • for main contacts # Solid or stranded # Diameter 5 to 6 mm Size of the screwdriver tip # Dezidriv size 2 # Solid or stranded of the connection screw • for main contacts # Solid or stranded ## Sol	·	50
backwards 0 mm 30 mm 90 mm		
- at the side — forwards 0 mm Connections/ Terminals type of electrical connection	•	
Connections/ Torminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • for main contacts • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip • for main contacts • for main contacts with screw-type terminals design of strewdriver shaft size of the screwdriver tip • safety-related data product function suitable for safety function • safety-related switching on • safety-related switching OFF service life maximum • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920		
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size of the screwdriver tip design of the thread of the connection screw of the main contacts M3 Safety related data product function suitable for safety function yes suitability for use osafety-related switching on safety-related switching OFF yes service life maximum 10 a test wear-related service life necessary proportion of dangerous failures owith low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN M3 M3 M3 M4 M4 M5 M5 M6 M6 M7 M8 M8 M9 M9 M9 M9 M9 M9 M9 M9		Diameter 5 to 6 mm
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suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 50 % B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 FIT	Safety related data	
suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 50 % B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 FIT		Yes
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test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 FIT	safety-related switching OFF	Yes
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 50 % B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 FIT	service life maximum	10 a
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 00 50 FIT 	test wear-related service life necessary	Yes
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 00 50 FIT 	•	
 with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 50 00 50 FIT 		40 %
B10 value with high demand rate according to SN 31920 5 000 failure rate [FIT] with low demand rate according to SN 50 FIT	-	50 %
failure rate [FIT] with low demand rate according to SN 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	









<u>KC</u>



General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping

BIS CRS



IECEx



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

Confirmation



Confirmation

Special Test Certificate



Siemens



Environment

Environmental Confirmations

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=3RV2011-0DA10

Cax online generator

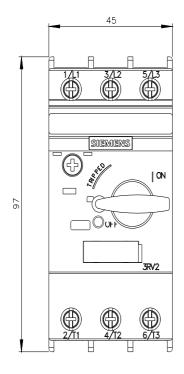
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA10

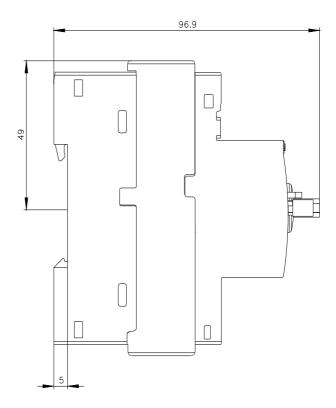
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

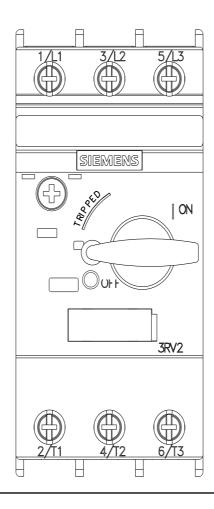
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA10

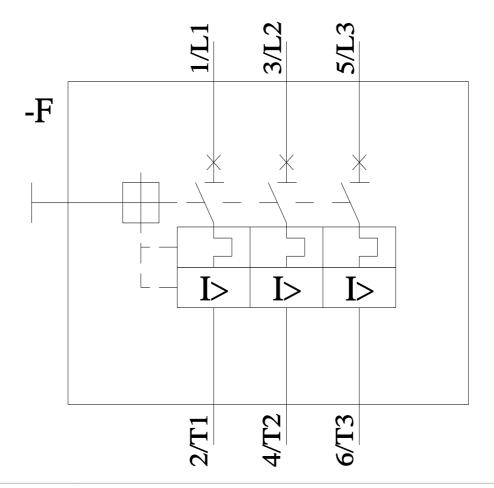
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0DA10&lang=en

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA10&objecttype=14&gridview=view1









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