SIEMENS

Data sheet 3RV2011-1DA20







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 	7.25 W
at AC in hot operating state per pole	2.4 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	0.367 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	2.2 3.2 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	3.2 A
operational current	
at AC-3 at 400 V rated value	3.2 A
at AC-3e at 400 V rated value	3.2 A
operating power	
• at AC-3	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
• at AC-3e	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 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 10 kA
at AC at 690 V rated value	
• at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC	10 kA
 at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 	10 kA 100 kA
 at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value 	10 kA 100 kA 100 kA
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at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor	10 kA 100 kA 100 kA 100 kA 10 kA 42 A 3.2 A 3.2 A 0.1 hp 0.25 hp
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— backwards — at the side — forwards • for live parts at 690 V — downwards — upwards — backwards — backwards — backwards — of main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded without core end processing — for AWG cables for main contacts 0 mm 30 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0	
- at the side - forwards • for live parts at 690 V - downwards 50 mm • upwards 50 mm - backwards 0 mm - at the side 30 mm - at the side 7 forwards 0 mm - at the side 7 forwards 0 mm - forwards - forwards - formain 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 AWG cables for main contacts 2 x (0.5 2.5 mm²) - finely stranded without core end processing - x (0.5 2.5 mm²) - for AWG cables for main contacts - x (20 12)	
- forwards • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards 0 mm - forwards 0 mm - forwards 0 mm Connections/ Terminals 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 - finely stranded without core end processing • for AWG cables for main contacts 2 x (0.5 2.5 mm²) - finely stranded without core end processing • for AWG cables for main contacts 2 x (20 12)	
 for live parts at 690 V — downwards — upwards — upwards — backwards — at the side — forwards — forwards — o mm — forwards — o mm — forwards — o mm — forwards — formains 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 — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for main contacts — solid or main contacts — finely stranded without core end processing — 2x (0.5 2.5 mm²) — finely stranded without core end processing — 2x (0.5 2.5 mm²) — finely stranded without core end processing — 2x (20 12) — finely stranded without core end processing — finely stranded without core end processing — x (20 12) — finely stranded without core end processing — x (20 12) — x (20 12)	
- downwards - upwards - backwards - backwards - at the side - forwards Connections/ Terminals 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 - finely stranded without core end processing - for AWG cables for main contacts • for AWG cables for main contacts 2 to mm 50 mm 50 mm 50 mm 50 mm 70 pm 6 pm 70 pand bottom	
- upwards - backwards 0 mm - at the side 30 mm - forwards 0 mm Connections/ Terminals 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 - finely stranded without core end processing • for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) - for AWG cables for main contacts 2x (20 12)	
- backwards - at the side - forwards Connections/ Terminals type of electrical connection	
- at the side - forwards 0 mm Connections/ Terminals 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 - finely stranded without core end processing ● for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)	
— forwards Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals 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 — finely stranded without core end processing • for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)	
type of electrical connection • for main current circuit spring-loaded terminals Top and bottom type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)	
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 — finely stranded without core end processing • for AWG cables for main contacts 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)	
 ◆ 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 — finely stranded without core end processing — for AWG cables for main contacts 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 5 (0.5 2.5 mm²) 2 (0.5 2.5 mm²) 2 (0.5 2.5 mm²) 2 (0.5 2.5 mm²)	
 for main contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) 	
 for main contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) 	
 — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) 	
 — finely stranded with core end processing — finely stranded without core end processing • for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) 	
 — finely stranded without core end processing • for AWG cables for main contacts 2x (0.5 2.5 mm²) 2x (20 12) 	
• for AWG cables for main contacts 2x (20 12)	
design of screwdriver shaft Diameter 3 mm	
size of the screwdriver tip 3,0 x 0,5 mm	
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









<u>KC</u>



General Product Approval

For use in hazardous locations

Test Certificates

Maritime application

BIS CRS





Type Test Certificates/Test Report

Special Test Certificate



Maritime application











Miscellaneous

other

other Railway

Environment

Confirmation



Confirmation

Special Test Certificate



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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2011-1DA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1DA20

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

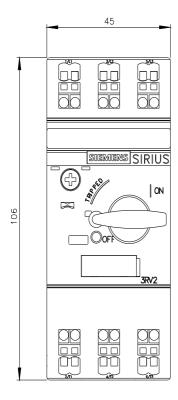
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1DA20&lang=en

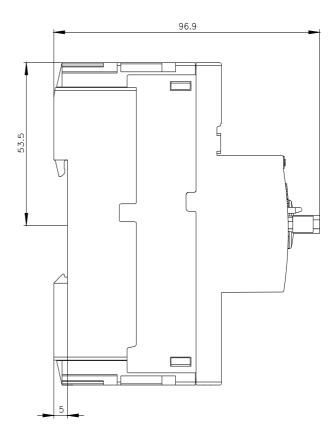
Characteristic: Tripping characteristics, I2t, Let-through current

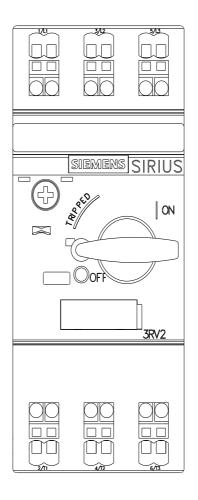
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA20/char

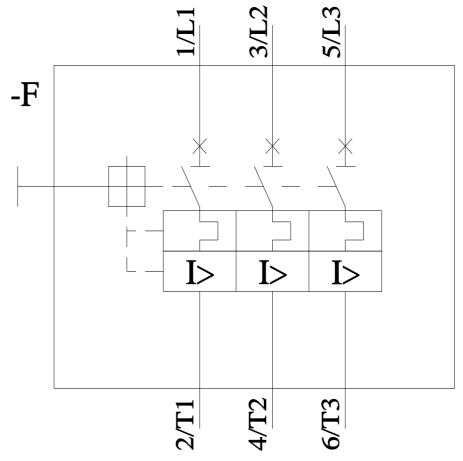
Further characteristics (e.g. electrical endurance, switching frequency)

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last modified: 5/16/2025 🖸