SIEMENS

Data sheet 3RV2711-1JD10





circuit breaker frame size S00 for system protection with approval circuit breaker UL 489, CSA C22.2 no. 5-02 thermal overload release 10 A short-circuit release 130 A screw terminal standard switching capacity



product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For system protection according to UL 489/CSA C22.2 No. 5
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
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	25 g / 11 ms (rectangular impulse and sine pulse)
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
Weight	0.522 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

turns of voltage for most	AC
type of voltage for main current circuit	AC
operating voltage	20 600 V
• rated value	20 690 V
at AC-3 rated value maximum 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	10 A
operational current	40.4
at AC-3 at 400 V rated value	10 A
at AC-3e at 400 V rated value	10 A
operating power	
• at AC-3	0.0 14W
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value — at 690 V rated value	5.5 kW
	7.5 kW
• at AC-3e	0.0 144
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW 7.5 kW
— at 690 V rated value	1.5 NVV
operating frequency	15 1/b
at AC-3 maximumat AC-3e maximum	15 1/h
	15 1/h
Auxiliary circuit	ACIDO
type of voltage for auxiliary and control circuit number of NC contacts for auxiliary contacts	AC/DC 0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	C .
product function • ground fault detection	No
phase failure detection	No
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	uleilliai
• 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 at AC at 500 V rated value	42 kA
at AC at 690 V rated value at AC at 690 V rated value	6 kA
at AS AC Y/277 V according to UL 489 rated value	65 kA
operating short-circuit current breaking capacity (Ics) at AC	00 to 1
at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value at 500 V rated value	42 kA
at 690 V rated value at 690 V rated value	4 kA
response value current of instantaneous short-circuit trip unit	130 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	
• at 400 V	gG 50 A
• at 500 V	gG 40 A
• at 690 V	gG 40 A
Installation/ mounting/ dimensions	35,
mounting position	any
fastening method	any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	144 mm
width	45 mm
depth	97 mm
required spacing	OF THIS
roquireu apaoning	

a for grounded parts at 400 V	
for grounded parts at 400 V— downwards	30 mm
	30 mm
— upwards	
— at the side	30 mm
• for live parts at 400 V	20
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
 for grounded parts at 500 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
● for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	30 mm
 for grounded parts at 690 V 	
— downwards	70 mm
— upwards	70 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	70 mm
— upwards	70 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
• 101 Hairi current circuit	colon type terminale
arrangement of electrical connectors for main current	Top and bottom
arrangement of electrical connectors for main current circuit	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	Top and bottom
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	Top and bottom 1 10 mm², max. 2x 10 mm²
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	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm²
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	Top and bottom 1 10 mm², max. 2x 10 mm²
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 tightening torque	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10)
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 tightening torque • for main contacts with screw-type terminals	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m
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 tightening torque • for main contacts with screw-type terminals design of screwdriver shaft	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m
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 tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm
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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 tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes
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 tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes 40 %
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes 40 %
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes 40 % 50 %
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes 40 % 50 % 5 000
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes 40 % 50 % 5 000
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arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	Top and bottom 1 10 mm², max. 2x 10 mm² 1 16 mm², max. 6 + 16 mm² 2x (14 10) 2.5 3 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT

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>



BIS CRS

Type Test Certificates/Test Report

Special Test Certific-



Miscellaneous

Environment other Railway

Confirmation



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



Siemens **EcoTech**



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)

all.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2711-1JD10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2711-1JD10}$

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

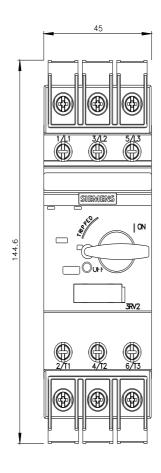
https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-1JD10

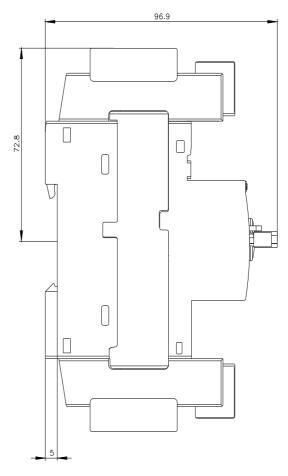
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

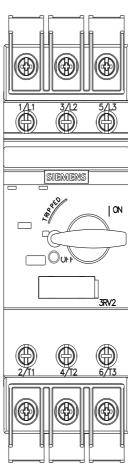
Characteristic: Tripping characteristics, I2t, Let-through current

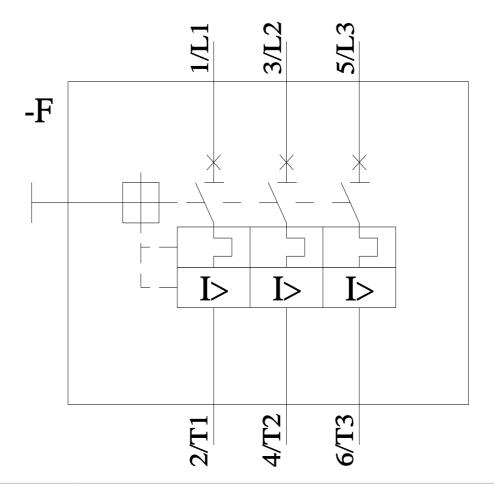
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Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2711-1JD10&objecttype=14&gridview=view1









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