SIEMENS

3RV2011-0DA20 **Data sheet**



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A Spring-type 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	0.295 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	
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 surrent sires:	2
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/DC
operating voltage	- 70,50
• 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	0.027
at AC-3 at 400 V rated value	0.32 A
at AC-3e at 400 V rated value	0.32 A
operating power	0.02 /1
• 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 AC-3e	U. I KVV
	O IAM
— at 230 V rated value — at 400 V rated value	0 kW 0.09 kW
— at 500 V rated value — at 690 V rated value	0.1 kW 0.1 kW
	U. 1 KVV
operating frequency	A.F. A.II.
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	1000
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 (lcs) 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	106 mm
width	45 mm

depth	97 mm
required spacing	V/ IIIII
with side-by-side mounting at the side	0 mm
	V IIIIII
for grounded parts at 400 V— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	9 111111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 500 V	3 111111
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	3 111111
— downwards	30 mm
— upwards	30 mm
— upwards — at the side	9 mm
for grounded parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— upwarus — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	O THIN
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
Connections/ Terminals type of electrical connection	
	spring-loaded terminals
type of electrical connection	spring-loaded terminals Top and bottom
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	. •
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	. •
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	Top and bottom
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	Top and bottom 2x (0,5 4 mm²)
type of electrical connection	Top and bottom 2x (0,5 4 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	Top and bottom 2x (0,5 4 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	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)
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 design of screwdriver shaft	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) Diameter 3 mm
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 design of screwdriver shaft size of the screwdriver tip	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)
type of electrical connection	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm
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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 design of screwdriver shaft size of the screwdriver tip Safety related data product function suitable for safety function suitability for use	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm Yes
type of electrical connection	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm Yes
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type of electrical connection	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm Yes No Yes 10 a Yes 40 % 50 %
type of electrical connection	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm Yes No Yes 10 a Yes 40 % 50 % 5 000
type of electrical connection	Top and bottom 2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm Yes No Yes 10 a Yes 40 % 50 %
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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





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=3RV2011-0DA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-0DA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA20

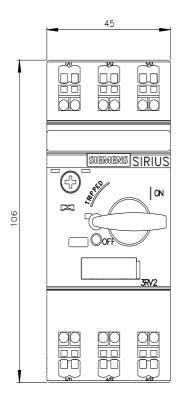
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

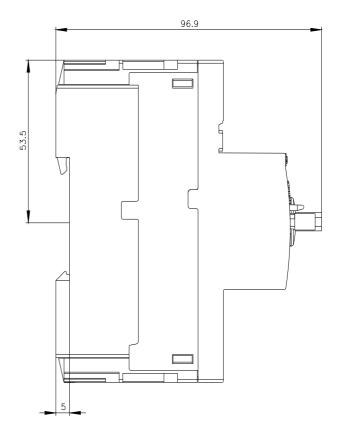
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0DA20&lang=en

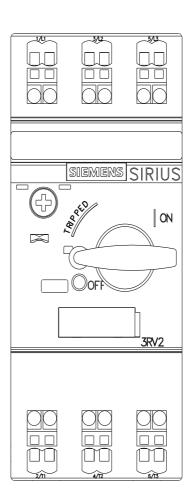
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0DA20/char

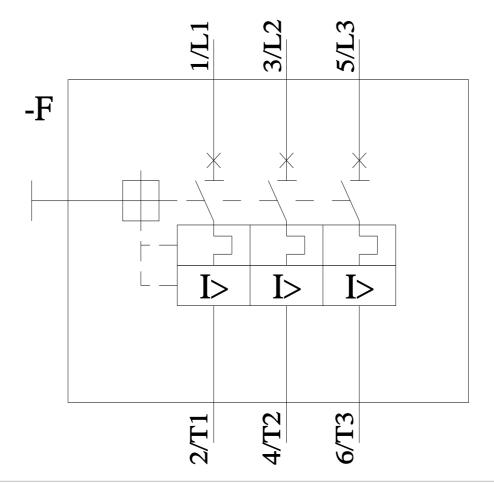
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0DA20&objecttype=14&gridview=view1









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