SIEMENS

Data sheet 3RV2011-0JA20



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 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 	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
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 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.7 1 A
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	1 A
operational current	
 at AC-3 at 400 V rated value 	1 A

## AC-3 ea xt 400 V rated value ## AC-3 ## AC-		
= at AC-3	at AC-3e at 400 V rated value	1 A
	operating power	
	• at AC-3	
— at 500 V rated value — at 600 V rated value — at 200 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 500 V rated value — 0 number of NC contacts for auxiliary contacts — 0 number of NC contacts for auxiliary contacts — 0 number of CO contacts for auxiliary contacts — 0 number of CO contacts for auxiliary contacts — 0 number of NC contacts for auxiliary contacts — 10 number of NC contacts for auxiliary contacts — 10 number of NC contacts for auxiliary contacts — 10 number of NC contacts for auxiliary contacts — 10 number of NC contacts for auxiliary contacts — 10 number of NC contacts for auxiliary contacts — 10 number of NC cont	— at 230 V rated value	0.2 kW
	— at 400 V rated value	0.25 kW
e at AC-3e — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 600 V	— at 500 V rated value	0.4 kW
	— at 690 V rated value	0.6 kW
- al 400 V rated value	• at AC-3e	
	— at 230 V rated value	0.2 kW
operating frequency • alt AC-3 maximum • alt AC-3 maximum • alt AC-3 maximum • alt AC-3 maximum 15 1/th Auxiliary circuit number of NC contacts for auxiliary contacts • 0 • unumber of NC contacts for auxiliary contacts • 0 • unumber of CO contacts for auxiliary contacts • 0 • unumber of CO contacts for auxiliary contacts • 0 • protective and monitoring functions product function • alt AC alt action • product function • alt AC alt action • alt AC alt a	— at 400 V rated value	0.25 kW
operating frequency at AC-S maximum at AC-S maximum at AC-S maximum bar AX-S maximum 15 th axxitary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts o number of NC contacts for auxiliary contacts o number of NC contacts for auxiliary contacts o number of CO contacts o number of Cottacts o number of Cottacts o number of Cottacts o number	— at 500 V rated value	0.4 kW
at AC-3 maximum at AC-3 emaximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts o number of CO contacts for auxiliary contacts o product function o ground fault detection Yes CLASS 10 design of the overload release maximum short-circuit current breaking capacity (icu) o at AC at 240 V rated value ot AC at 240 V rated value ot AC at 250 V v rated value o at AC at 500 V rated value o at AC at 500 V rated value o at AC at 250 V rated value o at 450 V rated value o at 550 V rated value or at 550 V rate	— at 690 V rated value	0.6 kW
at A AC-3 maximum at AC-3e maximum 15 f/h Auxiliary circuit number of NC contacts for auxiliary contacts o number of CO contacts for auxiliary contacts o product function or ground fauti detection or product function or phase failure detection Yes CLASS 10 design of the overload release maximum short-circuit current breaking capacity (icu) of at AC at 240 V rated value of AC at 250 V rated value of AC at 500	operating frequency	
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Auxiliary circuit number of NC contacts for auxiliary contacts • 0 number of CO contacts for auxiliary contacts • 0 number of CO contacts for auxiliary contacts • 0 number of CO contacts for auxiliary contacts • 0 number of CO contacts for auxiliary contacts • 0 number of CO contacts for auxiliary contacts • 0 product function • ground fault detection • prace allowed celection • prace allowed celection • phase fallowed detection • at AC at 680 V rated value • at AC at 680 V rated value • at 480 V rated value • at 480 V rated value • at 580 V rated value • at 680 V rated value • 100 kA • at 480 V rated value • 100 kA • at 480 V rated value • 1 hA **Juli-Gad current (FLA) for 3-phase AC motor • at 480 V rated value **Juli-Gad current (FLA) for 17 network for short-circuit protection of the short-circuit protection • product function short circuit protection • product function short circuit protection • at 5600 V rated value • at 5600		
number of NC contacts for auxiliary contacts unumber of NO contacts for auxiliary contacts unumber of NO contacts for auxiliary contacts unumber of CO contacts for auxiliary contacts unumber of CO contacts for auxiliary contacts product function ground fault detection product function ground fault detection yes CLASS 10 design of the overload release maximum short-circuit current breaking capacity (teu) at AC at 240 V rated value at AC at 400 V rated value at AC at 400 V rated value at AC at 400 V rated value at AC at 560 V rated value at 400 V rated value at 500 V rated value be at 500 V rated value at 500 V		
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts refreshive and monitoring functions product function ground fault detection No phase failure detection Yes trip class design of the overload release thermal maximum short-circuit current breaking capacity (tcu) at AC at 240 V rated value 100 kA at AC at 400 V rated value 100 kA at AC at 550 V rated value 100 kA at AC at 650 V rated value 100 kA at AC of 409 V rated value 100 kA at 400 V rated value 100 kA at 400 V rated value 100 kA at 400 V rated value 100 kA at 600 V rated value 100		
number of NO contacts for auxiliary contacts u	•	0
number of CO contacts for auxiliary contacts product function ground fault detection ground fault detection ground fault detection yes trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity ((cu)) 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 426 0 V rated value 100 kA at 426 0 V rated value 100 kA at 4300 V rated value 100 kA at 500 V rated value 100 kA 110 kA 1		
number of CO contacts for auxiliary contacts Protective and monitoring functions product function • ground fault detection • product function • ground fault detection • phase failure detection • phase failure detection * Yes * CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 600 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • at 500 V • at 600 V rated value • at 600 V rate	•	0
product function		
product function	·	Ü
• ground fault detection • phase failure detection • phase failure detection • phase failure detection • phase failure detection * trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 500 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value operating short-circuit current breaking capacity (Ics) at AC • at 240 V rated value 100 kA • at 500 V rated value • 100 kA • at 690 V rated value • 100 kA • at 690 V rated value • 100 kA • at 690 V rated value • 100 kA • at 690 V rated value • 100 kA • at 690 V rated value • 1 A **JUJCSA ratings** full-load current (ICLA) for 3-phase AC motor • at 480 V rated value • 1 A **yielded mechanical performance [hp] • for 3-phase AC motor • at 575600 V rated value 1 A **yielded mechanical performance [hp] • for 3-phase AC motor • at 575600 V rated value 0.5 hp **Short-circuit protection product function short circuit trip magnetic design of the fuse link for IT network for short-circuit protection of the main circuit • at 500 V • at 600 V • at 6	-	
rip 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 4500 V rated value 100 kA • at AC at 5500 V rated value 100 kA • at AC at 4500 V rated value 100 kA • at AC at 4500 V rated value 100 kA • at AC at 4500 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 400 V rated value 100 kA • at 4500 V rated value 100 kA • at 6500 V rated value 100 kA response value current of instantaneous short-circuit trip unit 13 A **DUCSA ratings** full-load current (FLA) for 3-phase AC motor • at 480 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 1 A • at 600 V rated value 0.5 hp **Short-circuit protection Ves design of the fuse link for IT network for short-circuit protection 1 the main circuit value 1 classing of the short-circuit trip design of the fuse link for IT network for short-circuit protection 1 the main circuit value 1 classing of the short-circuit protection 1 the main circuit value 1 classing of the short-circuit protection 2 classing of the short-circuit protection 3 classing of the short-circuit protection 4 classing of the short-circuit protection 5 classing of the short-circuit protection 5 classing of the short-circuit protection 6 classing of the short-circuit protection 1 the main circuit 4 classing of the short-circuit protection 5 classing of the short-circuit protection 6 classing of the short-circuit protection 1 the main circuit 4 classing of the short-circuit protection 6 the main circuit 4 classing of the short-circuit protection 6 the main circuit 4 classing of the short-circuit protection 6 the main circuit 4 classing of the short-circuit protection 6 the main circuit 4 classing of the short-circuit protection 6 the main circuit 4 classing of the short-circuit protection 6 the main circuit 4 classing of the short-circuit protectio	•	
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		thermal
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at 240 V rated value 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 13 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 1 A at 600 V rated value 1 A yielded mechanical performance [hp] of or 3-phase AC motor — at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 500 V at 690 V gL/gG 10 A Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm depth required spacing with side-by-side mounting at the side 100 kA 100	at AC at 690 V rated value	100 kA
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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 at 600 V rated value for 3-phase AC motor — at 575/600 V rated value	at 400 V rated value	100 kA
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depth 97 mm required spacing ● with side-by-side mounting at the side 0 mm	-	
required spacing • with side-by-side mounting at the side 0 mm		
• with side-by-side mounting at the side 0 mm	·	97 mm
tor grounded parts at 400 V		U 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
	9 111111
• for grounded parts at 500 V	20
— 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	spring-loaded terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	Top and bottom
type of connectable conductor cross-sections	
• for main contacts	
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
— finely stranded without core end processing	2x (0.5 2.5 mm²)
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	0,0 A 0,0 mm
proportion of dangerous failures	E0 0/
with low demand rate according to SN 31920 with high demand rate according to SN 31920	50 %
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
IEC 61508	
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 version for switching status	Handle
Approvals Certificates	
General Product Approval	
11.	







Confirmation





For use in hazardous locations

Test Certificates

Marine / Shipping





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

Type Test Certificates/Test Report





Marine / Shipping









Confirmation

other

Miscellaneous

other

Railway

Environment



Confirmation



Environmental Con-firmations

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=3RV2011-0JA20

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-0JA20}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA20

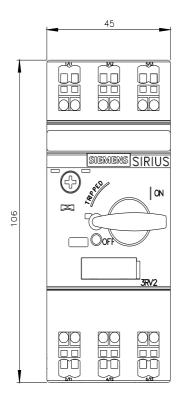
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

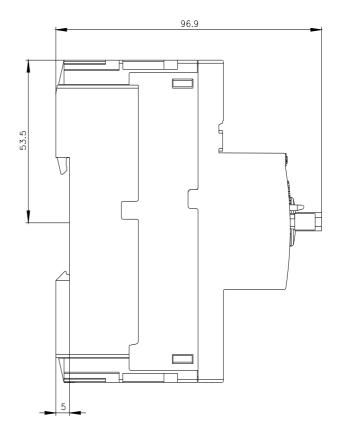
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-0JA20&lang=en

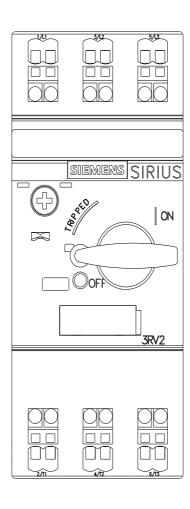
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-0JA20/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-0JA20&objecttype=14&gridview=view1









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