SIEMENS

Data sheet

3RV2011-1JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 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 	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	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	0.351 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 sireuit	2
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	7 10 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	10 A
operational current	
at AC-3 at 400 V rated value	10 A
at AC-3 at 400 V rated value at AC-3 at 400 V rated value	10 A
	10 A
operating power • at AC-3	
• at AC-3 — at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
• at AC-3e	2.2.1.11
— at 230 V rated value	2.2 kW
— at 400 V rated value	4 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	7.5 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
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 (lcu)	
a at AC at 240 V/ rotad value	
 at AC at 240 V rated value 	100 kA
 at AC at 240 V rated value at AC at 400 V rated value 	100 kA 100 kA
• at AC at 400 V rated value	100 kA
 at AC at 400 V rated value at AC at 500 V rated value	100 kA 42 kA
 at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value 	100 kA 42 kA
 at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC	100 kA 42 kA 6 kA
 at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value Operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 	100 kA 42 kA 6 kA 100 kA
 at AC at 400 V rated value at AC at 500 V rated value 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 	100 kA 42 kA 6 kA 100 kA 100 kA
 at AC at 400 V rated value at AC at 500 V rated value 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 	100 kA 42 kA 6 kA 100 kA 42 kA
 at AC at 400 V rated value at AC at 500 V rated value 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	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
 at AC at 400 V rated value at AC at 500 V rated value 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 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA
 at AC at 400 V rated value at AC at 500 V rated value 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	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A
 at AC at 400 V rated value at AC at 500 V rated value 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 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 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A
 at AC at 400 V rated value at AC at 500 V rated value 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 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A
 at AC at 400 V rated value at AC at 500 V rated value 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 600 V rated value at 600 V rated value 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A
 at AC at 400 V rated value at AC at 500 V rated value 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 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 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 42 kA 4 kA 130 A 10 A 10 A
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 at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value 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 at 600 V rated value at 600 V rated value at 480 V rated value at 600 V rated value 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A 10 A 10 A
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 at AC at 400 V rated value at AC at 500 V rated value 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 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 230 V rated value for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value 	100 kA 42 kA 6 kA 100 kA 100 kA 42 kA 4 kA 130 A 10 A 10 A 10 A 10 A 2 hp 3 hp 5 hp
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protocion of tio main circuit gLigS SA ••••••••••••••••••••••••••••••••••••						
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• slog V• glugG 40 AInstallation mounting nethinsionanyfastening methodscrew and ana-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmvidth45 mmdepth97 mmrequired spacingor mm- downwards30 mm- upwards30 mm- downwards30 mm- downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- downwards30 mm- upwards30 mm- downwards30 mm- downwards30 mm- downwards30 mm- downwards30 mm- downwards30 mm-	● at 400 V	gL/gG 50 A				
Distribution mounting contion any mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm required againg 97 mm • with slob-by-side mounting at the side 0 mm • for grounded parts at 400 V - - dortwards 30 mm - at the side 9 mm • for grounded parts at 400 V - - dortwards 30 mm - at the side 9 mm • for grounded parts at 500 V - - dortwards 30 mm - upwards 30 mm - upwards 30 mm - upwards 30 mm - dortwards 30 mm - upwards 30 mm <td>● at 500 V</td> <td colspan="4">gL/gG 40 A</td>	● at 500 V	gL/gG 40 A				
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depth 97 mm require spacing Image: Space spac	height	97 mm				
required spacing om • with side-by-side mounting at the side om • or grounded parts at 400 V om - downwards 30 mm - upwards 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 400 V om - at the side 9 mm - at the side 9 mm - at the side 9 mm - downwards 30 mm - upwards 50 mm - downwards 50 mm - upwards 30 mm - downwards 50 mm - forwards	width	45 mm				
•with side-by-side mounting at the side0 mm• or grounded parts at 400 V30 mm• upwards30 mm• upwards30 mm• of the parts at 400 V-• downwards30 mm• of words30 mm• upwards30 mm•	depth	97 mm				
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- downwards30 mm- upwards30 mm- upwards30 mm- of rive parts at 40 V9 mm- downwards30 mm- upwards30 mm- upwards50 mm- up	 with side-by-side mounting at the side 	0 mm				
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	— downwards	30 mm				
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- downards30 mm- upwards30 mm- upwards30 mm- downards at 500 V downards30 mm- upwards30 mm- upwards50 mm- upwards50 mm- downards50 mm- downards0 mm- downards0 mm- downards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- upwards50 mm- for ma	— at the side	9 mm				
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	— downwards					
• for grounded parts at 500 V·- downwards30 mm- upwards30 mm- at the side9 mm• for live parts at 500 V30 mm- upwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- downwards50 mm- downwards60 mm- upwards00 mm- upwards00 mm- upwards00 mm- upwards00 mm- upwards00 mm- upwards00 mm- at the side00 mm- backwards00 mm- downwards50 mm- for all st 800 V downwards50 mm- downwards00 mm- for all st 800 V downwards50 mm- downwards00 mm- for all current circuit30 mm- for all current circuit50 me- for all current circuit50 me- for all current circuit50 current- for all current circuit50 current- for all current	— upwards	30 mm				
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- at the side 9 mm - downwards 50 mm - upwards 50 mm - upwards 0 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - forwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - forwards 0 mm - forwards 0 mm - formaincurrent circuit screw-type terminals remain cornection screw-type terminals - for main cornectors for main current Top and bottom - for main contacts 2x (0.75 2.5 mm ³), 2x 4 mm ² - solid or stranded 2x (0.75 2.5 mm ³), 2x 4 mm ² - for main contacts 2x (0.5 1.5 mm ³), 2x 4 mm ² - for main contacts with screw-type terminals 2x (18 14), 2x 12 tightening torque or main contacts with screw-type terminals <t< td=""><td>— downwards</td><td></td></t<>	— downwards					
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• for live parts at 690 V50 mm- downwards50 mm- upwards50 mm- backwards0 mm- backwards30 mm- at the side30 mm- forwards0 mm- forwards0 mm- forwards0 mmConnections/ Terminals50 mmtype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminalstype of connectable conductor cross-sectionsTop and bottom• for main contacts- solid or stranded- solid or stranded2x (0,75 2,5 mm²), 2x 4 mm²- finely stranded with core end processing2x (0,5 1,5 mm²), 2x 4 mm²• for wain contacts2x (0,75 2,5 mm²), 2x 4 mm²• for main contacts2x (0,75 2,5 mm²), 2x 4 mm²• for stranded0.8 1,2 N·m• for stranded with screw-type terminals0.8 1,2 N·m• for main contacts with screw-type terminals0.8 1,2 N·m• for main contacts with screw-type terminalsDiameter 5 to 6 mm• for main contacts with screw-type terminalsDiameter 5 to 6 mm• for main contacts with screw-type terminalsDiameter 5 to 6 mm• for main contacts with screw-type terminalsDiameter 5 to 6 mm• for main contactsM3Safety related dataM3						
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• for main contacts $2x (0,75 2,5 mm^2), 2x 4 mm^2$ - solid or stranded $2x (0,75 2,5 mm^2), 2x 4 mm^2$ - finely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2,5 mm^2)$ • for AWG cables for main contacts $2x (18 14), 2x 12$ tightening torque $2x (18 14), 2x 12$ • for main contacts with screw-type terminals $0.8 1.2 N \cdot m$ design of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screw • for main contactsM3Safety related data						
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tightening torque 0.8 • for main contacts with screw-type terminals 0.8 design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M3 • for main contacts M3	— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
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design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M3 safety related data M3	tightening torque					
size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M3 o for main contacts M3 Safety related data	 for main contacts with screw-type terminals 	0.8 1.2 N·m				
design of the thread of the connection screw • for main contacts Safety related data	design of screwdriver shaft	Diameter 5 to 6 mm				
• for main contacts M3 Safety related data	size of the screwdriver tip	Pozidriv size 2				
Safety related data	design of the thread of the connection screw					
	for main contacts	M3				
product function suitable for safety function Yes	Safety related data					
	product function suitable for safety function	Yes				

suitability for use safety-related switching safety-related switching service life maximum test wear-related service life		No				
safety-related switching service life maximum						
service life maximum			Yes			
	, ,					
test wear-related service life				10 a Yes		
test wear-related service life necessary						
proportion of dangerous failures						
	 with low demand rate according to SN 31920 			40 %		
with high demand rate a						
B10 value with high demand			00			
failure rate [FIT] with low demand rate according to SN 31920			TIT			
ISO 13849						
device type according to IS	device type according to ISO 13849-1					
overdimensioning according	g to ISO 13849-2 ı	necessary Yes				
IEC 61508						
safety device type according	g to IEC 61508-2	Тур	e A			
T1 value						
 for proof test interval or 61508 	service life accord	ling to IEC 10 a	3			
Electrical Safety						
protection class IP on the fr	ont according to	IEC 60529 IP20	0			
touch protection on the from			er-safe, for vertical contact	from the front		
Display						
display version for switching s	tatus	Han	Idle			
Approvals Certificates						
General Product Approval						
Conoral Product An	EG-Konf.	UK CA		UL.		
General Product Approval	use in hazardous	locations	Test Certificates		Marine / Shipping	
EAC	K ATEX	IECE×	<u>Type Test Certific-</u> <u>ates/Test Report</u>	<u>Special Test Certific-</u> <u>ate</u>	ABS	
Marine / Shipping					other	
		Lloyds Register us	PRS	RINA	<u>Miscellaneous</u>	
other		Railway		Environment		
<u>Confirmation</u>	VDE	<u>Special Test Certific-</u> <u>ate</u>	<u>Confirmation</u>	EPD	Siemens EcoTech	
Environment						
Environment 10						
Environmental Con- firmations						

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=3RV2011-1JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1JA10

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

https://supp t.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10

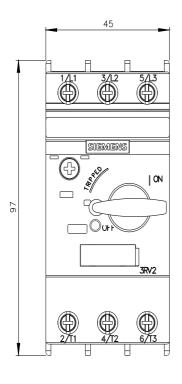
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1JA10&lang=en

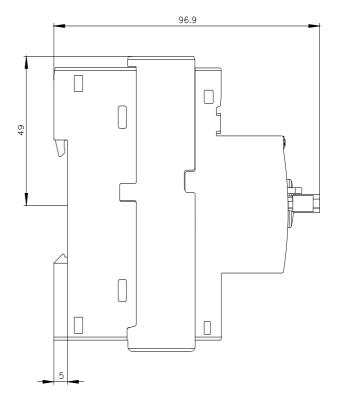
Characteristic: Tripping characteristics, I2t, Let-through current

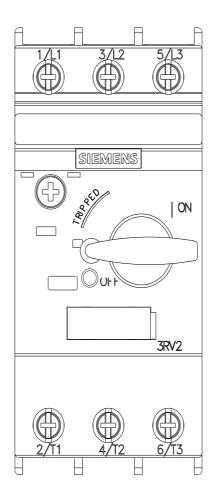
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10/char

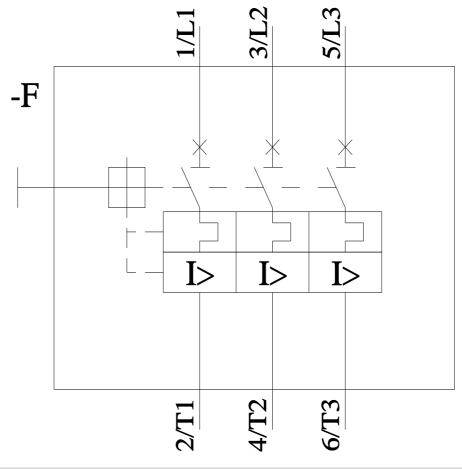
Further characteristics (e.g. electrical endurance, switching frequency)

earch&mlfb=3RV2011-1JA10&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=Se









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