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

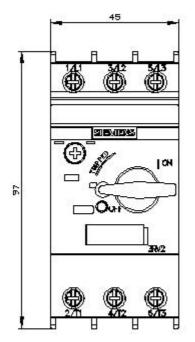
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] 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
maximum permissible voltage for safe isolation in networks with grounded star point	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (switching cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2009 00:00:00
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-20 +60 °C
 ambient temperature during storage 	-50 +80 °C
ambient temperature during transport	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3

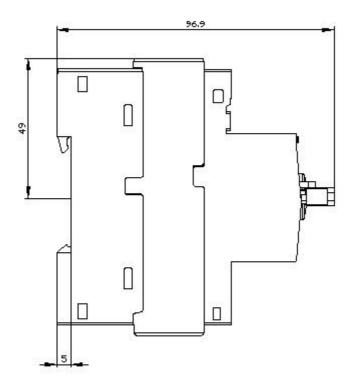
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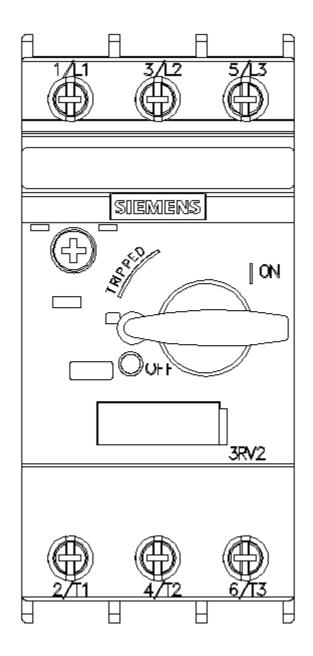
adjustable current response value current of the current-dependent overload release	7 10 A
 operating voltage rated value 	690 V
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	10 A
operational current at AC-3 at 400 V rated value	10 A
operating power at AC-3	
at 230 V rated value	2 200 W
• at 400 V rated value	4 000 W
• at 500 V rated value	5 500 W
• at 690 V rated value	7 500 W
operating frequency at AC-3 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
breaking capacity operating short-circuit current (Ics) at AC	
 at 240 V rated value 	100 kA
• at 400 V rated value	100 kA
• at 500 V rated value	42 kA
 at 690 V rated value 	4 kA
breaking capacity maximum short-circuit current (lcu)	
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 	42 kA
 at AC at 690 V rated value 	6 kA
response value current of instantaneous short-circuit trip unit	130 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	10 A
 at 600 V rated value 	10 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	1.5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
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	gL/gG 50 A
● at 500 V	gL/gG 40 A
• at 690 V	gL/gG 40 A
Installation/ mounting/ dimensions	

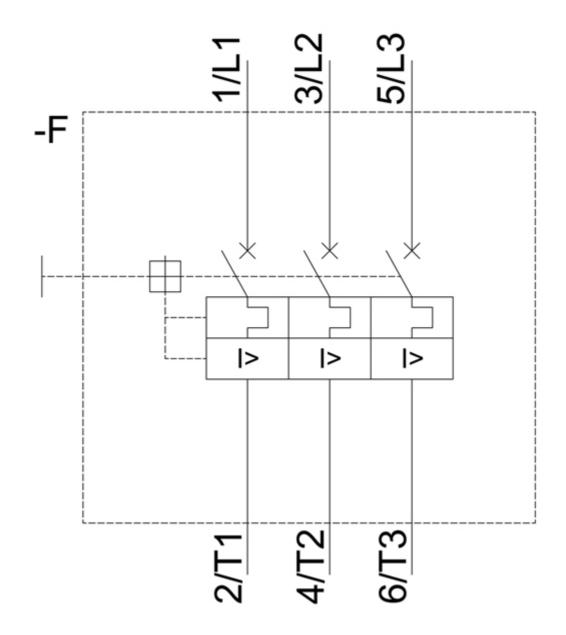
mounting position	_ any		
fastening method	•		
lastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
height	97 mm		
width	45 mm		
depth	97 mm		
required spacing			
• for grounded parts at 400 V			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
• for live parts at 400 V			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
 for grounded parts at 500 V 	9 11111		
	30 mm		
— downwards			
— upwards	30 mm		
— at the side	9 mm		
for live parts at 500 V	60		
— 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			
product function removable terminal for auxiliary and control circuit	No		
type of electrical connection			
for main current circuit	screw-type terminals		
arrangement of electrical connectors for main current	Top and bottom		
circuit	-		
type of connectable conductor cross-sections			
for main contacts			
— 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)		
at AWG cables for main contacts	2x (18 14), 2x 12		
 tightening torque for main contacts with screw-type terminals 	0.8 1.2 N·m		
design of screwdriver shaft	Diameter 5 to 6 mm		
size of the screwdriver tip	Pozidriv 2		
design of the thread of the connection screw			
 for main contacts 	M3		
Safety related data			
B10 value			
 with high demand rate acc. to SN 31920 	5 000		
with high demand rate acc. to SN 31920 proportion of dangerous failures	5 000		
with high demand rate acc. to SN 31920 proportion of dangerous failures with low demand rate acc. to SN 31920	5 000 50 %		

failure rate [FIT]	nd rate acc. to SN 319	920 50 F	:1T			
	est interval or servic					
protection class IP	on the front acc. to I	EC 60529 IP20	IP20			
touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front			
display version for s	-	Han	dle			
Certificates/ approva	lls					
General Product A	pproval				For use in hazardous locations	
			KC	EAC	K ATEX	
For use in hazardous locations	Declaration of Co	onformity	Test Certificates		Marine / Shipping	
IECEx	CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>	<u>Special Test</u> <u>Certificate</u>	ABS	
Marine / Shipping						
BUREAU VERITAS	Hoyd's Register uis	PRS	RINA	RMAS	DNV-GL	
other		Railway				
<u>Confirmation</u>		Vibration and Shock	<u>Confirmation</u>			
Further information						
Information- and De	ownloadcenter (Cata	logs, 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://support.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⟨=en						
Characteristic: Trip	ping characteristics	<u>b/cax_de.aspx?mifb=3RV</u> , I ² t, Let-through curren w/en/ps/3RV2011-1JA10	t			
Further characteris	tics (e.g. electrical e	ndurance, switching fre	equency)	0&objecttype=14&gric	<u>lview=view1</u>	









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