SIEMENS

Data sheet

3RV2011-1JA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC $\,$

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
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
adjustable current response value current of the	7 10 A



aurrent dependent overland relates	
current-dependent overload release	
 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	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 120 V	0.5 A
• at 125 V	0.5 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 60 V	0.15 A
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 (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	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
	7.5 hp C300 / R300

Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
 for short-circuit protection of the auxiliary switch required 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current $Ik < 400 A$)
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	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	20 mm
— downwards	30 mm
— upwards	30 mm 9 mm
 — at the side for live parts at 400 V 	9 1111
 downwards 	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— 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 — forwards	30 mm 0 mm
Connections/ Terminals	No
product function removable terminal for auxiliary and control circuit	No
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
 for main contacts 	
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)



at AWG cables	for main contacts	2x	(18 14), 2x 12			
type of connectable	conductor cross-sect	ions				
for auxiliary contacts						
— solid or stranded			2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
— finely stranded with core end processing		-	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
at AWG cables for auxiliary contacts		2x	2x (20 16), 2x (18 14)			
 tightening torque for main contacts with screw-type terminals 		n screw-type 0.8	0.8 1.2 N·m			
 tightening torque for auxiliary contacts with screw- type terminals 			0.8 1.2 N·m			
design of screwdriver shaft		Dia	Diameter 5 to 6 mm			
size of the screwdriver tip		Po	Pozidriv 2			
design of the thread of the connection screw		rew				
• for main contacts			3			
 of the auxiliary and control contacts 			3			
Safety related data						
B10 value						
 with high dema 	ind rate acc. to SN 3192	20 5 (000			
proportion of dange						
	nd rate acc. to SN 31920	50	%			
	ind rate acc. to SN 31920					
failure rate [FIT]		.0	70			
	nd rate acc. to SN 31920	50	FIT			
	est interval or service l					
IEC 61508	est interval of service i		y			
protection class IP	on the front acc. to IEC	C 60529	20			
touch protection on	the front acc. to IEC 6	6 0529 fin	ger-safe, for vertical cont	act from the front		
display version for sw			indle			
Certificates/ approval	s					
General Product Ap					For use in hazardous locations	
		UL.	KC	EAC	hazardous	
		ormity	KC Test Certificates	EAC	hazardous locations	
General Product Ap	oproval	ormity EG-Konf.		ERE Type Test Certificates/Test Report	hazardous locations	
General Product Ap	oproval	CE	Test Certificates Special Test	Certificates/Test	hazardous locations	
General Product Ap	oproval	CE	Test Certificates Special Test	Certificates/Test	hazardous locations	
General Product Ap	Declaration of Conf Miscellaneous	CE	Test Certificates Special Test	Certificates/Test	hazardous locations	



Confirmation

Further information

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=3RV2011-1JA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1JA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA15

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

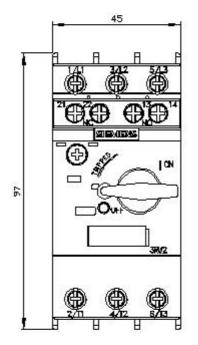
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1JA15&lang=en

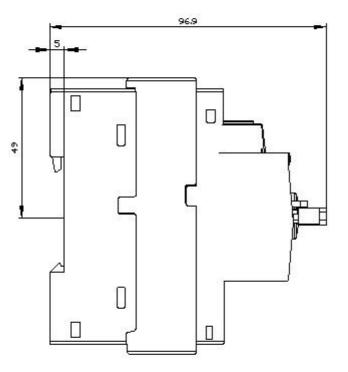
Characteristic: Tripping characteristics, I²t, Let-through current

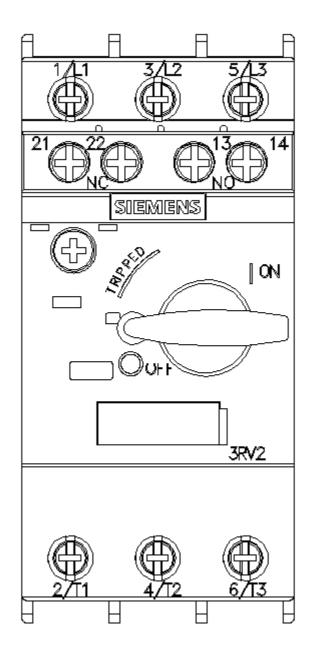
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA15/char

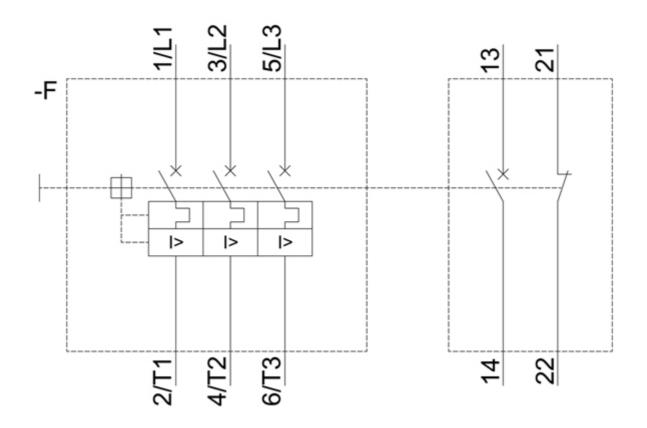
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA15&objecttype=14&gridview=view1









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