SIEMENS

Data sheet

3RV2011-1DA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.2...3.2 A N release 42 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 	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			
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	2.2 3.2 A			



current-dependent overload release	-
	200.1/
 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	3.2 A
operational current at AC-3 at 400 V rated value	3.2 A
operating power at AC-3	
• at 230 V rated value	550 W
 at 400 V rated value 	1 100 W
 at 500 V rated value 	1 500 W
• at 690 V rated value	2 200 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	100 kA
at 690 V rated value	10 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	100 kA
at AC at 690 V rated value	10 kA
response value current of instantaneous short-circuit trip unit	42 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	3.2 A
• at 600 V rated value	3.2 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.1 hp
— at 230 V rated value	0.25 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.75 hp
— at 460/480 V rated value	1.5 hp
— at 575/600 V rated value	2 hp
contact rating of auxiliary contacts according to UL	C300 / R300
contact rating of auxiliary contacts according to DE	

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 lk < 400 A)					
design of the fuse link for IT network for short-circuit protection of the main circuit						
• at 400 V	gL/gG 25 A					
• at 500 V	gL/gG 32 A					
• at 690 V	gL/gG 25 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 						
— 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 						
— 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	50 mm					
— downwards	50 mm 50 mm					
— upwards						
— backwards — at the side	0 mm 30 mm					
— at the side — forwards	0 mm					
Connections/ Terminals	U min					
product function removable terminal for auxiliary and	No					
control circuit	NU					
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)					



type of connectable • for auxiliary cor — solid or str			$2\sqrt{10}$ 11)				
 for auxiliary cor — solid or str 		/G cables for main contacts		2x (18 14), 2x 12			
— solid or str		tions					
	for auxiliary contacts						
finally atrac	— 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 	at AWG cables for auxiliary contacts			2x (20 16), 2x (18 14)			
 tightening torque for main contacts with screw-type terminals 			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			Diameter 5 to 6 mm				
size of the screwdriver tip			Pozidriv 2				
design of the thread of the connection screw							
for main contacts			M3				
 of the auxiliary and control contacts 			M3				
Safety related data							
B10 value							
 with high demain 	 with high demand rate acc. to SN 31920 						
proportion of dangerous failures							
with low demand rate acc. to SN 31920		50 %					
with high demand rate acc. to SN 31920		50 %					
failure rate [FIT]							
	d rate acc. to SN 3192	20	50 FIT				
	T1 value for proof test interval or service life acc. to		10 y				
	on the front acc. to IE	C 60529	IP20				
	the front acc. to IEC			vertical cont	act from the front		
display version for sw			Handle				
Certificates/ approval	-		- Idinaro				
					For use in hazardou	e le setiene	
General Product Ap	piovai						
(S) M		(UL)	E	AC	Ex ATEX	IECEX	
Declaration of Conf	ormity	Test Certifica	tes		Marine / Shipping		
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<u>Miscellaneous</u>	CE EG-Konf.	<u>Type Test</u> <u>Certificates/T</u> <u>Report</u>		<u>cial Test</u> r <u>tificate</u>	ABS	BUREAU	
						YENTIAS	
Marine / Shipping						other	
Marine / Shipping	PRS	RINA	(RMRS		other Confirmation	
Lloyd's Register	PRS	RINA	(RMRS			

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=3RV2011-1DA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1DA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA15

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

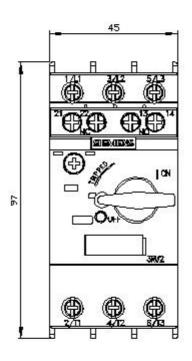
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1DA15&lang=en

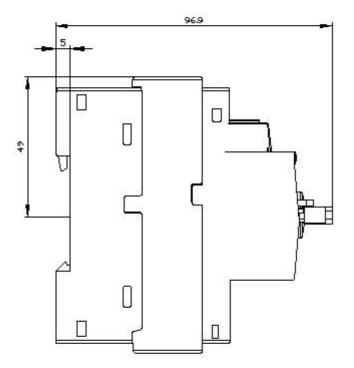
Characteristic: Tripping characteristics, I²t, Let-through current

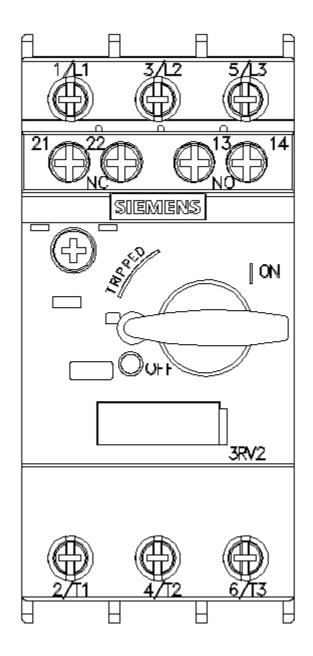
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA15/char

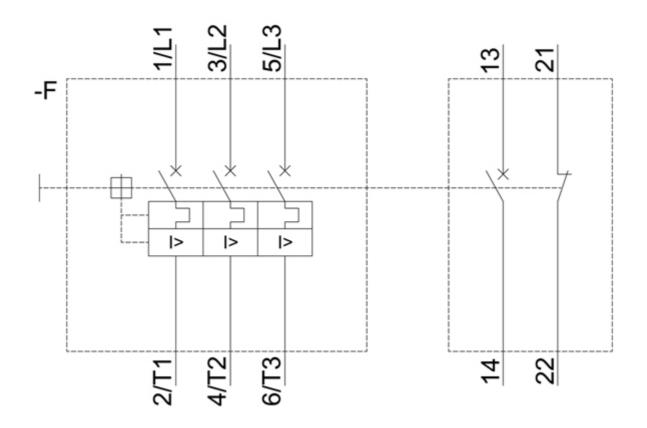
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1DA15&objecttype=14&gridview=view1









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