## 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				
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W			
<ul> <li>at AC in hot operating state per pole</li> </ul>	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				
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V			
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V			
shock resistance acc. to IEC 60068-2-27	25g / 11 ms			
mechanical service life (switching cycles)				
<ul> <li>of the main contacts typical</li> </ul>	100 000			
<ul> <li>of auxiliary contacts typical</li> </ul>	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			
<ul> <li>ambient temperature during operation</li> </ul>	-20 +60 °C			
<ul> <li>ambient temperature during storage</li> </ul>	-50 +80 °C			
<ul> <li>ambient temperature during transport</li> </ul>	-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/
<ul> <li>operating voltage rated value</li> </ul>	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
<ul> <li>at 400 V rated value</li> </ul>	1 100 W
<ul> <li>at 500 V rated value</li> </ul>	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	
<ul> <li>ground fault detection</li> </ul>	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
<ul> <li>at AC at 400 V rated value</li> </ul>	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
<ul> <li>for 3-phase AC motor</li> </ul>	
— 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						
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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						
<ul> <li>for grounded parts at 400 V</li> </ul>						
— 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					
<ul> <li>for grounded parts at 500 V</li> </ul>						
— 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					
<ul> <li>for grounded parts at 690 V</li> </ul>						
— 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					
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals					
arrangement of electrical connectors for main current circuit	Top and bottom					
type of connectable conductor cross-sections						
<ul> <li>for main contacts</li> </ul>						
— solid or stranded	2x (0,75 2,5 mm²), 2x 4 mm²					
<ul> <li>— finely stranded with core end processing</li> </ul>	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)				
<ul> <li>for auxiliary cor</li> <li>— solid or str</li> </ul>		/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)				
<ul> <li>at AWG cables</li> </ul>	at AWG cables for auxiliary contacts			2x (20 16), 2x (18 14)			
<ul> <li>tightening torque for main contacts with screw-type terminals</li> </ul>			0.8 1.2 N·m				
<ul> <li>tightening torque for auxiliary contacts with screw- type terminals</li> </ul>			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				
<ul> <li>of the auxiliary and control contacts</li> </ul>			M3				
Safety related data							
B10 value							
<ul> <li>with high demain</li> </ul>	<ul> <li>with high demand rate acc. to SN 31920</li> </ul>						
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	<b>Ex</b> ATEX	IECEX	
Declaration of Conf	ormity	Test Certifica	tes		Marine / Shipping		
					-	(1 x)	
<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	<b>PRS</b>	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, ...)

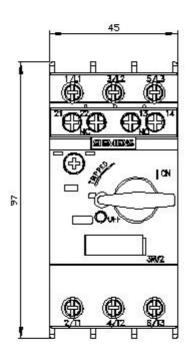
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2011-1DA15&lang=en

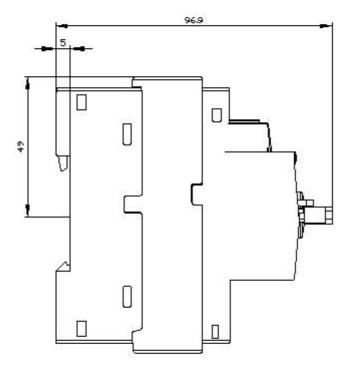
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

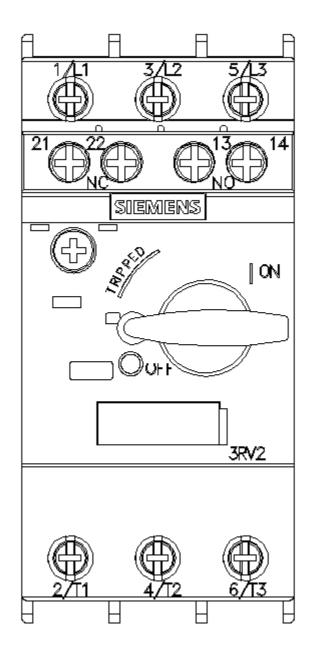
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1DA15/char

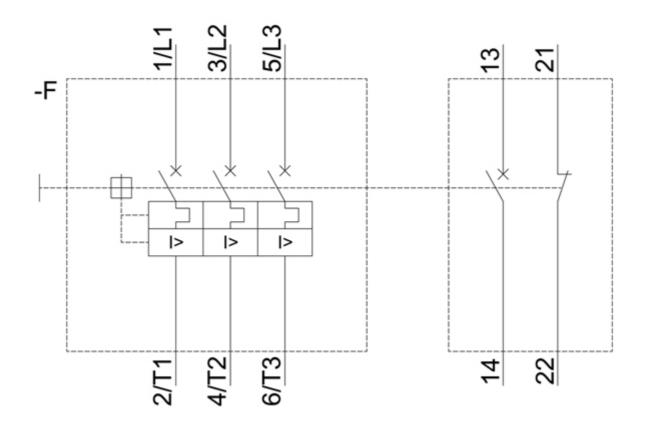
Further characteristics (e.g. electrical endurance, switching frequency)

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









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