## SIEMENS

## Data sheet

## 3RV1011-1DA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 2.2...3.2 A N release 42 A 1 NO+1 NC transverse Screw terminal Standard switching capacity

product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
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
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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	2.2 3.2 A
operating voltage	
<ul> <li>rated value</li> </ul>	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	3.2 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	3.2 A
<ul> <li>at AC-3e at 400 V rated value</li> </ul>	3.2 A

operating power	
• at AC-3	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
• at AC-3e	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
operating frequency	
<ul> <li>at AC-3 maximum</li> </ul>	15 1/h
<ul> <li>at AC-3e maximum</li> </ul>	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
• note	1
number of NO contacts for auxiliary contacts	1
• note	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
• at 110 V	2 A
• at 120 V	2 A
• at 125 V	2 A
• at 230 V	0.5 A
operational current of auxiliary contacts at DC-13	0.0 A
• at 24 V	1A
• at 60 V	0.15 A
	0.13 A
Ducto stive and monitoring functions	
Protective and monitoring functions	
product function	
<pre>product function      • ground fault detection</pre>	No
<ul> <li>product function</li> <li>ground fault detection</li> <li>phase failure detection</li> </ul>	Yes
product function <ul> <li>ground fault detection</li> <li>phase failure detection</li> </ul> trip class	Yes CLASS 10
product function  • ground fault detection  • phase failure detection  trip class design of the overload release	Yes
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)	Yes CLASS 10 thermal
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value	Yes CLASS 10 thermal 100 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 3 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 3 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • breaking capacity operating short-circuit current (Ics)	Yes CLASS 10 thermal 100 kA 100 kA 3 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • 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         • at AC at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 3 kA 2 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • 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         breaking capacity operating short-circuit current (Ics) at AC         • at 240 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         breaking capacity operating short-circuit current (Ics)         at AC         • at 240 V rated value         • at 240 V rated value         • at 240 V rated value         • at 400 V rated value         • at 400 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         breaking capacity operating short-circuit current (Ics) at AC         • at 240 V rated value         • at 240 V rated value         • at 240 V rated value         • at 500 V rated value         • at 400 V rated value         • at 500 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 240 V rated value         breaking capacity operating short-circuit current (Ics) at AC         • at 240 V rated value         • at 240 V rated value         • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 400 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at AC at 690 V rated value         breaking capacity operating short-circuit current (Ics) at AC         • at 240 V rated value         • at 240 V rated value         • at 240 V rated value         • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at AC at 690 V rated value         breaking capacity operating short-circuit current (Ics) at AC         • at 240 V rated value         • at 240 V rated value         • at 240 V rated value         • at 690 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         breaking capacity operating short-circuit current (lcs) at AC         • at 240 V rated value         • at 400 V rated value         • at 400 V rated value         • at 400 V rated value         • at 690 V rated value <tr< td=""><td>Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 42 A 3.2 A</td></tr<>	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 42 A 3.2 A
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • 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         breaking capacity operating short-circuit current (Ics) at AC         • at 240 V rated value         • at 500 V rated value         • at 690 V rated value         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 3 kA 2 kA 42 A
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at 690 V rated value         • at 480 V rated value         • at 480 V rated value         • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 42 A 3.2 A
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at 690 V rated value         • at 600 V rated value         • at 480 V rated value         • at 480 V rated value         • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 2 kA 42 A 3.2 A 3.2 A
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         breaking capacity operating short-circuit current (lcs) at AC         • at 240 V rated value         • at 240 V rated value         • at 240 V rated value         • at 400 V rated value         • at 690 V rated value         • at 600 V rated value	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 2 kA 42 A 3.2 A 3.2 A 0.1 hp
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 600 V rated value         • at 240 V rated value         • at 400 V rated value         • at 400 V rated value         • at 690 V rated value         • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 100 kA 2 kA 2 kA 42 A 3.2 A 3.2 A
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (Icu)         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 690 V rated value         • at 240 V rated value         • at 690 V rated value         • at 690 V rated value         • at 400 V rated value         • at 690 V rated value         • at 600 V rated value         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         • at 600 V rated value         • at 230 V rate	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 2 kA 100 kA 100 kA 2 kA 2 kA 42 A 3.2 A 3.2 A 0.1 hp 0.25 hp
product function         • ground fault detection         • phase failure detection         trip class         design of the overload release         breaking capacity maximum short-circuit current (lcu)         • at AC at 240 V rated value         • at AC at 240 V rated value         • at AC at 500 V rated value         • at AC at 690 V rated value         • at AC at 600 V rated value         • at 240 V rated value         • at 400 V rated value         • at 400 V rated value         • at 690 V rated value         • at 600 V rated valu	Yes CLASS 10 thermal 100 kA 100 kA 2 kA 100 kA 100 kA 3 kA 2 kA 42 A 3.2 A 3.2 A 0.1 hp

— at 460/480 V rated value	2 hp		
— at 575/600 V rated value	2 hp 2 hp		
contact rating of auxiliary contacts according to UL	C300 / R300		
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</li> </ul>	fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk <		
required	400 A)		
design of the fuse link for IT network for short-circuit			
protection of the main circuit	none required		
• at 240 V	none required		
● at 400 V ● at 500 V	gL/gG 40 A		
• at 500 V	gL/gG 35 A gL/gG 35 A		
Installation/ mounting/ dimensions			
	001/		
fastening method	any screw and snap-on mounting onto 35 mm standard mounting rail		
rastening method	according to DIN EN 60715		
height	90 mm		
width	45 mm		
depth	75 mm		
required spacing			
<ul> <li>for grounded parts at 400 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
<ul> <li>for live parts at 400 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
<ul> <li>for grounded parts at 500 V</li> <li>— downwards</li> </ul>	20 mm		
— downwards — upwards	20 mm 20 mm		
— upwards — at the side	9 mm		
<ul> <li>for live parts at 500 V</li> </ul>			
- downwards	20 mm		
— upwards	20 mm		
— at the side	9 mm		
<ul> <li>for grounded parts at 690 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— backwards	0 mm		
— at the side	9 mm		
— forwards	0 mm		
<ul> <li>for live parts at 690 V</li> </ul>			
— downwards	20 mm		
— upwards	20 mm		
— backwards	0 mm		
— at the side	9 mm		
— forwards	0 mm		
Connections/ Terminals			
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 (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²)		
— finely stranded with core end processing	2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		

• for auxiliary con	a a walvesta w a wala a la at				
<ul> <li>for auxiliary cor</li> </ul>		ions			
<ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> </ul>					
— solid or stranded tightening torque		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
<ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliary contacts with screw-type terminals</li> </ul>		0.8 1.2 N·m			
for auxiliary contacts with screw-type terminals		0.8 1.2 N·m			
size of the screwdriver tip design of the thread of the connection screw			Pozidriv size 2		
•		rew			
<ul> <li>for main contacts</li> <li>of the auxiliary and control contacts</li> </ul>		M3			
of the auxiliary and control contacts		M3			
Safety related data					
B10 value					
with high demand rate according to SN 31920		5 000			
<ul><li>proportion of dangerous failures</li><li>with low demand rate according to SN 31920</li></ul>		50.0/			
	-		50 %		
-	nd rate according to SN	131920	50 %		
failure rate [FIT]	d rate according to CN	24020			
	d rate according to SN		50 FIT		
protection class IP c 60529	on the front according	IO IEC	IP20		
	the front according to	IEC 60529	finger-safe, for vertical conta	act from the front	
display version for sw			Rocker switch		
Certificates/ approval	-				
					For use in hazard-
General Product Ap	proval				ous locations
CSA				LIIL	ATEX
For use in hazard- ous locations	Declaration of Conf	ormity	Test Certificates		Marine / Shipping
	Declaration of Conf CE EG-Konf.	ormity UK CA	Test Certificates         Special Test Certificates         ate	<u>Type Test Certific-</u> ates/Test Report	Marine / Shipping
ous locations	CE	ormity UK CA	Special Test Certific-		Marine / Shipping
ous locations	CE	ormity UK CA	Special Test Certific-		Marine / Shipping
ous locations	EG-Konf.	ormity UK CA	Special Test Certific-		ABS
ous locations	EG-Konf.	ormity UK CA	Special Test Certific- ate		ABS
ous locations EECEx Marine / Shipping EURE AU URE AU Confirmation Confirmation	EG-Konf.		Special Test Certific- ate		ABS
ous locations	EG-Konf.		Special Test Certific- ate		ABS
ous locations EECEx Marine / Shipping EURE AU URE AU Confirmation Confirmation	EG-Konf.		Special Test Certific- ate		ABS

Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-1DA15 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1DA15 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-1DA15&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-1DA15/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-1DA15&objecttype=14&gridview=view1

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