## SIEMENS

## Data sheet

## 3RV2411-1GA15



Circuit breaker size S00 for transformer protection A-release 4.5...6.3 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 transformer 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
shock resistance according 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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	4.5 6.3 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	6.3 A
operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	6.3 A

• at AC-3e at 400 V rated value	6.3 A
operating power	0.07
• at AC-3	
- at 230 V rated value	1.5 kW
— at 200 V rated value	2.2 kW
— at 500 V rated value	3 kW
— at 690 V rated value	3 KVV 4 kW
• at AC-3e	4 KVV
	4 5 100
— at 230 V rated value	1.5 kW
— at 400 V rated value	2.2 kW 3 kW
— at 500 V rated value	
— at 690 V rated value	4 kW
<ul> <li>operating frequency</li> <li>at AC-3 maximum</li> </ul>	15 1/h
• at AC-3e maximum	15 1/h
	15 1/11
Auxiliary circuit	transverse
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 operational current of auxiliary contacts at AC-15	0
	2.4
● at 24 V ● at 120 V	2 A 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 24 V • at 60 V	0.15 A
	0.13 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 maximum short-circuit current (lcu)	ulema
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	6 kA
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
at 240 V rated value	100 kA
at 500 V rated value	100 kA
at 690 V rated value	4 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	6.3 A
• at 600 V rated value	6.3 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 110/120 V rated value	0.25 hp
— at 230 V rated value	0.5 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	1 hp
— at 220/230 V rated value	1.5 hp
— at 460/480 V rated value	3 hp
- at 575/600 V rated value	5 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 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 50 A
• at 500 V	gL/gG 40 A
• at 690 V	gL/gG 35 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
<ul> <li>for live parts at 400 V</li> </ul>	
— 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
<ul> <li>for live parts at 500 V</li> </ul>	
— 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
<ul> <li>for live parts at 690 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	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)
at AWG cables for main contacts	2x (18 14), 2x 12
type of connectable conductor cross-sections	
for auxiliary contacts	

final strate	ded		2x (0.5 1.5 mm²), 2x (0.		
	ed with core end pro	ocessing	2x (0.5 1.5 mm²), 2x (0.		
<ul> <li>at AWG cables for</li> </ul>	r auxiliary contacts		2x (20 16), 2x (18 14	)	
tightening torque					
<ul> <li>for main contacts</li> </ul>			0.8 1.2 N·m		
<ul> <li>for auxiliary contact</li> </ul>		terminals	0.8 1.2 N·m		
design of screwdriver			Diameter 5 to 6 mm		
size of the screwdriver			Pozidriv size 2		
design of the thread of	f the connection s	crew			
<ul> <li>for main contacts</li> </ul>			M3		
<ul> <li>of the auxiliary and</li> </ul>	d control contacts		M3		
Safety related data					
B10 value					
<ul> <li>with high demand rate according to SN 31920</li> </ul>		5 000			
proportion of dangerou	us failures				
<ul> <li>with low demand r</li> </ul>	with low demand rate according to SN 31920		50 %		
<ul> <li>with high demand</li> </ul>	-		50 %		
failure rate [FIT]			-		
<ul> <li>with low demand r</li> </ul>	rate according to SN	N 31920	50 FIT		
T1 value for proof test in	-		10 y		
IEC 61508					
protection class IP on 60529	the front accordin	g to IEC	IP20		
touch protection on the	e front according	to IEC 60529	finger-safe, for vertical cor	ntact from the front	
display version for switcl	hing status		Handle		
Certificates/ approvals					
C3N			ŬĽ.		
Declaration of Conform					
2001anation of Comon	mity	Test Certific	cates	Marine / Shipping	
	mity CE EG-Konf.	Test Certific Special Test ( ate		Marine / Shipping	BUREAU VERITAS
Marine / Shipping	CE	Special Test C	Certific- Type Test Certific-	Marine / Shipping	<b>BURGAU</b> <b>BURGAU</b> <b>VERITAS</b>
	CE	Special Test C	Certific- Type Test Certific-	Marine / Shipping	<b>EUREAU</b> VERITAS Other <u>Confirmation</u>
	CE	Special Test C	Certific- Type Test Certific-	Marine / Shipping	
Marine / Shipping	EG-Konf.	Special Test C	Certific- Type Test Certific-	Marine / Shipping	
Marine / Shipping	EG-Konf.	Special Test C	Certific- Type Test Certific-	Marine / Shipping	
Marine / Shipping	EG-Konf.	Special Test C	Certific- Type Test Certific- ates/Test Report	Marine / Shipping	

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6/25/2022 🖸