## SIEMENS

## Data sheet

## 3RV2011-1BA15



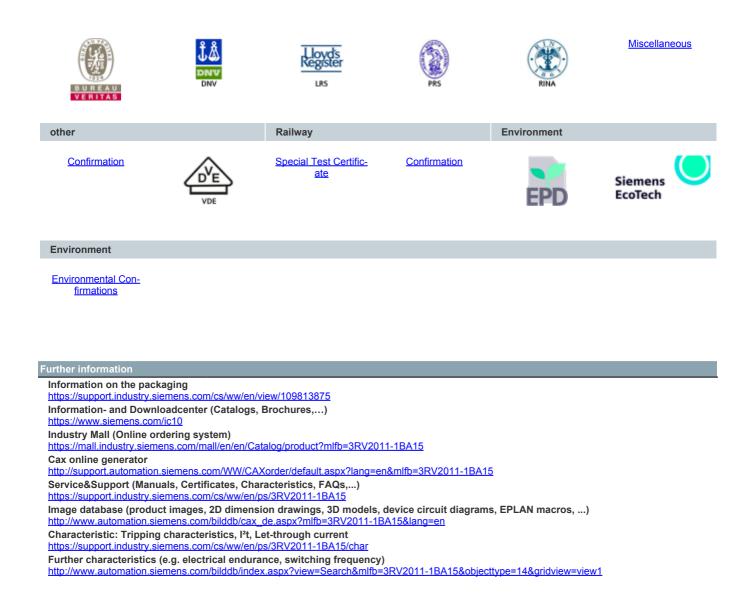
Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.4...2 A N-release 26 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

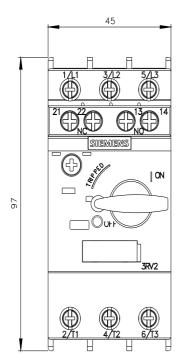
4/12 4/15	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power 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
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Weight	0.355 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-20 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
relative humidity during operation	10 95 %
Environmental footprint	
Global Warming Potential [CO2 eq] total	74.698 kg
Global Warming Potential [CO2 eq] during manufacturing	1.98 kg
global warming potential [CO2 eq] during sales	0.134 kg
Global Warming Potential [CO2 eq] during operation	72.7 kg
Global Warming Potential [CO2 eq] after end of life	-0.116 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	

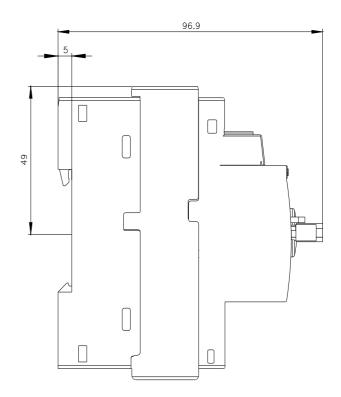
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	1.4 2 A
operating voltage	
rated value	20 690 V
at AC-3 rated value maximum	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	2 A
operational current	
at AC-3 at 400 V rated value	2 A
at AC-3e at 400 V rated value	2 A
operating power	
• at AC-3	
— at 230 V rated value	0.4 kW
- at 400 V rated value	0.75 kW
- at 500 V rated value	0.8 kW
— at 690 V rated value	1.1 kW
• at AC-3e	1.1 NVV
• at AC-se — at 230 V rated value	0.4 kW
— at 400 V rated value	0.75 kW
— at 500 V rated value	0.75 kW
— at 500 V rated value — at 690 V rated value	0.8 KVV
operating frequency	1.1 I.VV
e at AC-3 maximum	15 1/h
• at AC-3 maximum • at AC-3e maximum	15 1/h
Auxiliary circuit	15 1/11
	transverse
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	0
• at 24 V	2 A
• at 24 V • 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	0.5 A
• at 24 V	1 A
• at 60 V	0.15 A
Protective and monitoring functions	0.15 A
product function	No
<ul> <li>ground fault detection</li> <li>phase failure detection</li> </ul>	No Yes
	Yes CLASS 10
trip class	
design of the overload release	thermal
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	
<ul><li>maximum short-circuit current breaking capacity (Icu)</li><li>at AC at 240 V rated value</li></ul>	100 kA
<ul> <li>maximum short-circuit current breaking capacity (Icu)</li> <li>at AC at 240 V rated value</li> <li>at AC at 400 V rated value</li> </ul>	100 kA 100 kA
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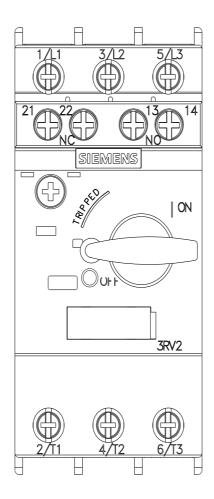
<ul> <li>for single-phase AC motor</li> </ul>	
— at 230 V rated value	0.13 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	
• 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 25 A
• at 690 V	gL/gG 20 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
• 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	<b>V</b> mm
— downwards	30 mm
	30 mm
— upwards	
— at the side	9 mm
• for live parts at 500 V	20 mm
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for grounded parts at 690 V	50
— 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	30 mm
— forwards	0 mm
Connections/ Terminals	
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	
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 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
for AWG cables for main contacts	2x (18 14), 2x 12		
type of connectable conductor cross-sections			
<ul> <li>for auxiliary contacts</li> </ul>			
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	2x (20 16), 2x (18 14)		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
<ul> <li>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 size 2		
design of the thread of the connection screw			
<ul> <li>for main contacts</li> </ul>	M3		
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3		
Safety related data			
product function suitable for safety function	Yes		
suitability for use			
safety-related switching on	No		
safety-related switching OFF	Yes		
service life maximum	10 a		
test wear-related service life necessary	Yes		
	165		
proportion of dangerous failures	40.0/		
with low demand rate according to SN 31920	40 %		
with high demand rate according to SN 31920	50 %		
B10 value with high demand rate according to SN 31920	5 000		
failure rate [FIT] with low demand rate according to SN 31920	50 FIT		
ISO 13849			
device type according to ISO 13849-1	3		
overdimensioning according to ISO 13849-2 necessary	Yes		
IEC 61508			
safety device type according to IEC 61508-2	Туре А		
T1 value			
<ul> <li>for proof test interval or service life according to IEC</li> </ul>	10 a		
61508			
Electrical Safety			
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
Display			
display version for switching status	Handle		
Approvals Certificates			
General Product Approval			
	Confirmation	<u>KC</u>	
	t (VL)		
CCC EG-Konf.			
General Product Ap-			
proval For use in hazardous locations	Test Certificates	Marine / Shipping	
	Type Test Certific- stea Test Depart	State and	
HHI (Ex)	ates/Test Report ate	and a	
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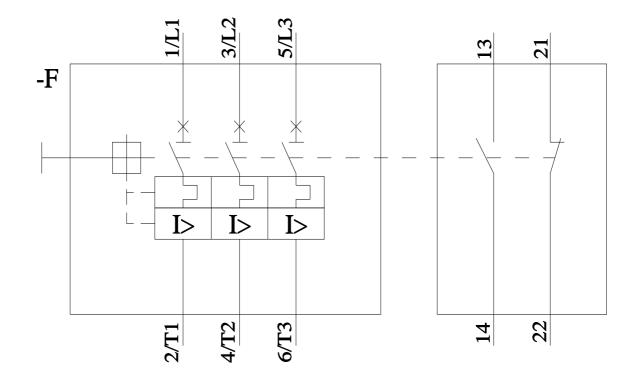








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