## SIEMENS

## Data sheet

## 3RV2011-1JA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity

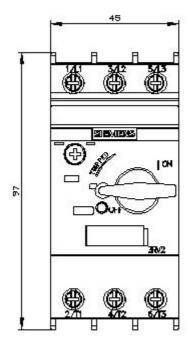
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	_
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	9.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	3.1 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
Substance Prohibitance (Date)	01.10.2009 00:00:00
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
<ul> <li>during transport</li> </ul>	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	

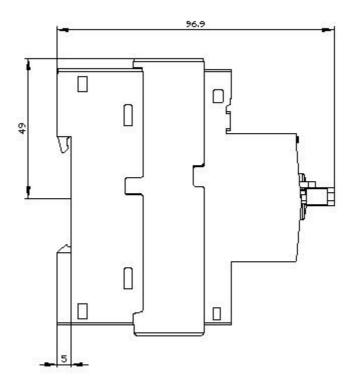
	2
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	7 10 A
operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	10 A
operational current at AC-3 at 400 V rated value	10 A
operating power at AC-3	
at 230 V rated value	2.2 kW
at 400 V rated value	4 kW
at 500 V rated value	5.5 kW
at 690 V rated value	7.5 kW
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
ground fault detection	No
-	Yes
phase failure detection     trip class	Yes CLASS 10
•	thermal
design of the overload release	liema
breaking capacity operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	42 kA
at 690 V rated value	4 kA
breaking capacity maximum short-circuit current (lcu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	42 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	6 kA
response value current of instantaneous short-circuit trip	130 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	10 A
at 600 V rated value	10 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	1.5 hp
for 3-phase AC motor	
— at 200/208 V rated value	2 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	5 hp
— at 575/600 V rated value	7.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
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 40 A

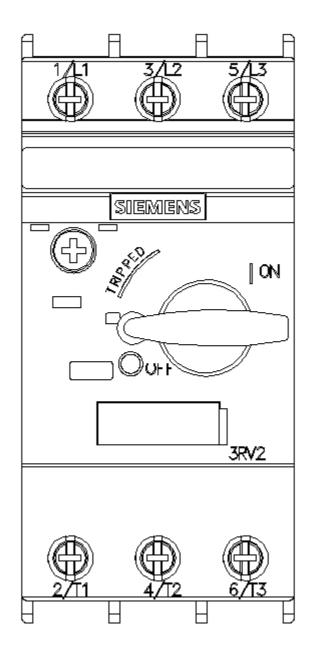
nstallation/ mounting/ dimensions mounting position	any		
istening method any screw and snap-on mounting onto 35 mm standard mounting rates and snap-on mounting onto 35 mm standard mounting onto 35 mm standa			
	according to DIN EN 60715		
height	97 mm		
width	45 mm		
depth	97 mm		
required spacing			
<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>	3 1111		
- downwards	30 mm		
	30 mm		
— upwards			
— at the side	9 mm		
for live parts at 500 V	20 mm		
— downwards	30 mm 30 mm		
— upwards			
— 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			
product function removable terminal for auxiliary and	No		
control circuit			
type of electrical connection			
for main current 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 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )		
at AWG cables for main contacts	2x (0.5 1.5 mm), 2x (0.75 2.5 mm)		
tightening torque			
for main 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		
Safety related data			
B10 value	5 000		
with high demand rate acc. to SN 31920	5 000		
proportion of dangerous failures	50.04		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	50 %		

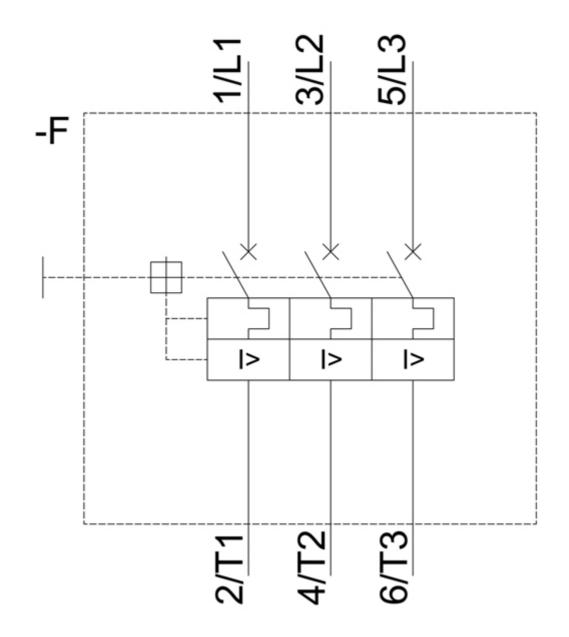
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	PRS	PRS RINA	PRS RINA Confirmation

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	Tripping characteristics, I <sup>2</sup> t, Let-through current dustry.siemens.com/cs/ww/en/ps/3RV2011-1JA10/char
	eristics (e.g. electrical endurance, switching frequency) nation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA10&objecttype=14&gridview=view1









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