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

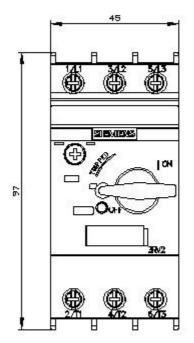
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	_
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	9.25 W
 at AC in hot operating state per pole 	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	
 between main and auxiliary circuit 	400 V
 between main and auxiliary circuit 	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	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	
 during operation 	-20 +60 °C
 during storage 	-50 +80 °C
 during transport 	-50 +80 °C
temperature compensation	-20 +60 °C
relative humidity during operation	10 95 %
Main circuit	

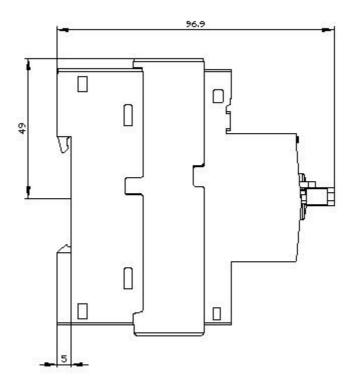
	2
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	7 10 A
operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	10 A
operational current 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	
 at 240 V rated value 	100 kA
 at 400 V rated value 	100 kA
 at 500 V rated value 	42 kA
at 690 V rated value	4 kA
breaking capacity maximum short-circuit current (lcu)	
 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 	42 kA
 at AC at 690 V rated value 	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

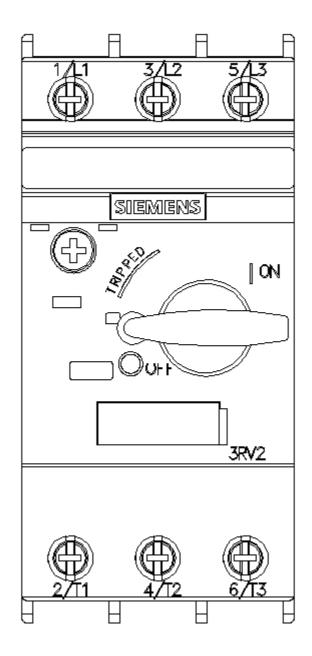
nstallation/ mounting/ dimensions mounting position	any		
istening method any screw and snap-on mounting onto 35 mm standard mounting rates and snap-on mounting onto 35 mm standard mounting onto 35 mm standa			
	according to DIN EN 60715		
height	97 mm		
width	45 mm		
depth	97 mm		
required spacing			
 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 	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		
 for grounded parts at 690 V 			
— 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			
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 ²), 2x (0.75 2.5 mm ²)		
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		
 with low demand rate acc. to SN 31920 	50 %		

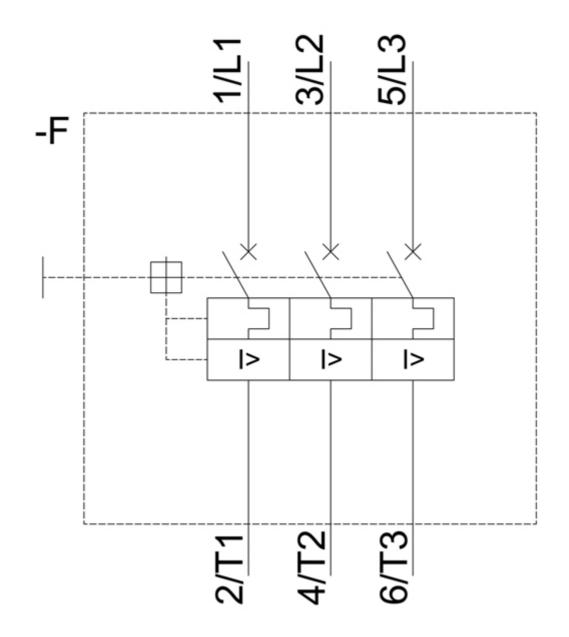
920 50 ce life acc. to 10 IEC 60529 IP: C 60529 fin		act from the front	For use in hazard- ous locations
IEC 60529 IP: C 60529 fin) y 20 Iger-safe, for vertical cont andle	act from the front	
IEC 60529 IP: C 60529 fin	20 Iger-safe, for vertical cont andle	act from the front	
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	PRS	PRS RINA	PRS RINA Confirmation

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