SIEMENS

Data sheet

3RV2011-0JA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 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 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 	7.25 W	
at AC in hot operating state per pole	2.4 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	
 ambient temperature during storage 	-50 +80 °C	
ambient temperature during transport	-50 +80 °C	
temperature compensation	-20 +60 °C	
relative humidity during operation	10 95 %	
Main circuit		

adjustable current response value current of the current-dependent overload release	0.7 1 A
 operating voltage rated value 	690 V
 operating voltage at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1A
operational current at AC-3 at 400 V rated value	1A
operating power at AC-3	
at 230 V rated value	180 W
 at 400 V rated value 	250 W
 at 500 V rated value 	370 W
at 690 V rated value	550 W
operating frequency at AC-3 maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
	1
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	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	
• at 24 V	1A
• at 60 V	0.15 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 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 	100 kA
at 690 V rated value	100 kA
breaking capacity maximum short-circuit current (Icu)	
• 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	100 kA
response value current of instantaneous short-circuit trip unit	13 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1 A
• at 600 V rated value	1 A
yielded mechanical performance [hp]	
 for 3-phase AC motor 	
— at 575/600 V rated value	0.5 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	
 for short-circuit protection of the auxiliary switch 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current

required	lk < 400 A)		
design of the fuse link for IT network for short-circuit			
protection of the main circuit			
• at 500 V	gL/gG 10 A		
• at 690 V	gL/gG 10 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			
 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	20		
— downwards	30 mm		
— upwards	30 mm		
— 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 — downwards 	50 mm		
	50 mm		
— upwards — backwards	0 mm		
— at the side	30 mm		
— at the side — forwards	0 mm		
 for live parts at 690 V 	0 mm		
— 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	No		
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 (0,75 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 (18 14), 2x 12		
type of connectable conductor cross-sections			
 for auxiliary contacts 			
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
 — finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)		
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 tightening torq terminals 	ue for main contacts with	n screw-type	0.8 1.2 N·m			
	ue for auxiliary contacts	with screw-	0.8 1.2 N·m			
design of screwdriver shaft		Diameter 5 to 6 mm				
size of the screwdr			Pozidriv 2			
	d of the connection scr	ew	_			
 for main conta 			M3			
of the auxiliary and control contacts			M3			
Safety related data						
B10 value						
	and rate acc. to SN 3102	20	5 000			
with high demand rate acc. to SN 31920			5 000			
 proportion of dangerous failures with low demand rate acc. to SN 31920 			50 %			
			50 %			
with high demand rate acc. to SN 31920 failure rate [EIT]			50 %			
failure rate [FIT]						
• with low demand rate acc. to SN 31920		50 FIT				
IEC 61508	test interval or service l		10 y			
•	on the front acc. to IEC		IP20			
touch protection or	n the front acc. to IEC 6	0529	finger-safe, for ver	tical contact from the fro	nt	
display version for s	witching status		Handle			
Certificates/ approva	als					
General Product A	pproval			For use in h	nazardous locations	
		<u>e</u>	<u>сп</u>			
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 Further information

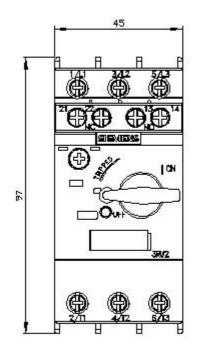
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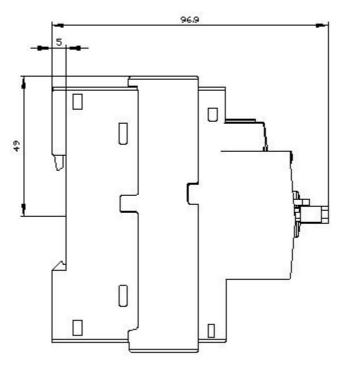
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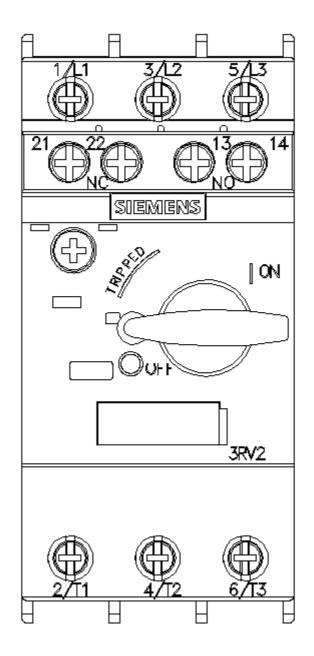
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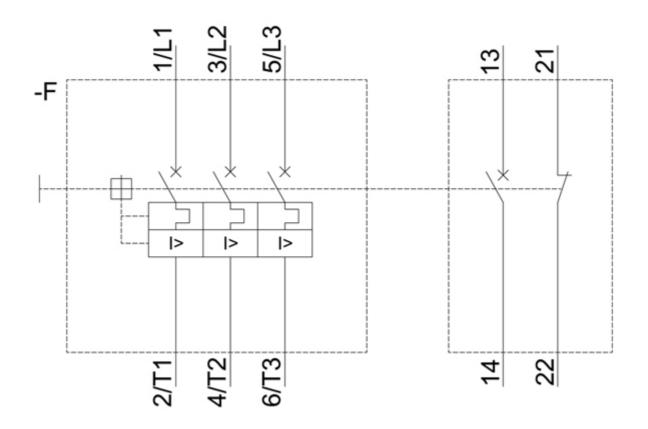
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last modified:

12/15/2020 🖸