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

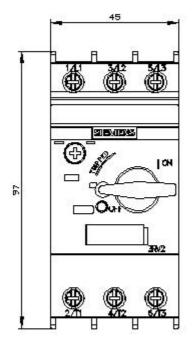
product brand name	SIRIUS		
product designation	Circuit breaker		
design of the product	For motor protection		
product type designation	3RV2		
General technical data			
size of the circuit-breaker	S00		
size of contactor can be combined company-specific	S00, S0		
product extension auxiliary switch	Yes		
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			

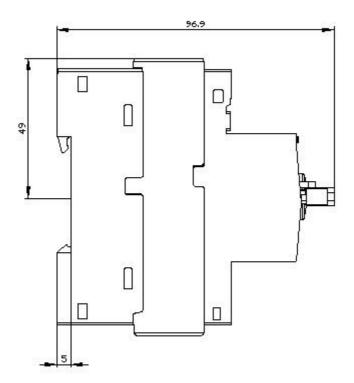
	2
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	7 10 A
operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	10 A
operational current 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

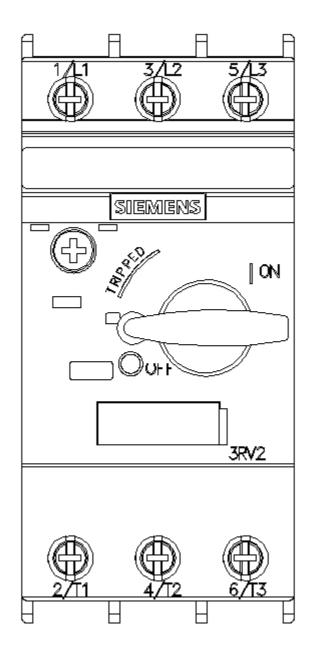
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715		
height	97 mm		
width	45 mm		
depth	97 mm		
required spacing			
 for grounded parts at 400 V 			
— downwards	30 mm		
— upwards	30 mm		
— 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 			
— downwards	30 mm		
— upwards	30 mm		
— at the side	9 mm		
• for live parts at 500 V			
— downwards	30 mm		
— upwards	30 mm		
— 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 component 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	Top and bottom		
circuit			
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 mm²), 2x (0.75 2.5 mm²)		
 at AWG cables for main contacts 	2x (18 14), 2x 12		
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			
 with high demand rate acc. to SN 31920 	5 000		
proportion of dangerous failures			
• with low demand rate acc. to SN 31920	50 %		

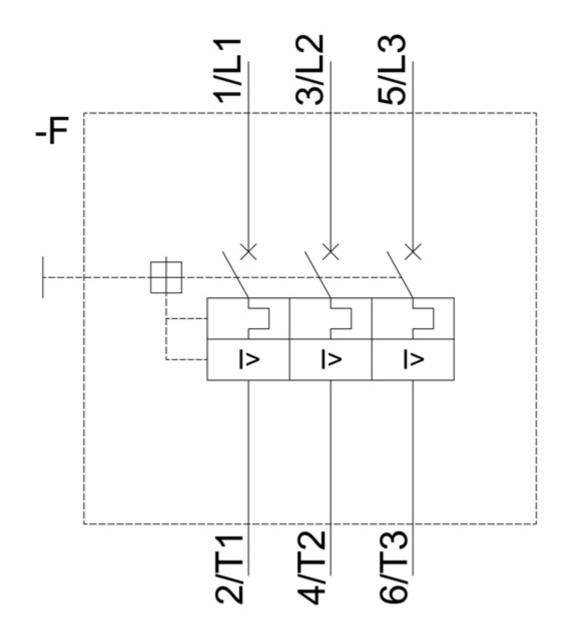
 with high dema 	nd rate acc. to SN 31920		50 %			
failure rate [FIT]						
	d rate acc. to SN 31920		50 FI	Т		
T1 value for proof te IEC 61508	est interval or service lif	fe acc. to	10 y			
protection class IP of	on the front acc. to IEC	60529	IP20			
touch protection on	the front acc. to IEC 60	529	finger	-safe, for vertical cont	act from the front	
display version for sw			Hand			
Certificates/ approval	-					
General Product Ap	proval					For use in hazard- ous locations
				KC	EAC	KEx ATEX
For use in hazard- ous locations	Declaration of Confo	rmity		Test Certificates		Marine / Shipping
IECEx	C C EG-Konf.	Miscellaneous	<u>S</u>	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	ABS
Marine / Shipping						
	Lloyd's Register urs	PRS		RINA	RMRS R	DNV-GL
other	Railway					
<u>Confirmation</u>	Vibration and Shock	<u>Confirmation</u>	L			
Further information						

ation- and Downloadcenter (Catalogs, Brochures,)	
<u>vww.siemens.com/ic10</u>	
y Mall (Online ordering system)	
nall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3R	<u>√2011-1JA10</u>
line generator	
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&Support (Manuals, Certificates, Characteristics, FAQs,)	
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database (product images, 2D dimension drawings, 3D mod	els, device circuit diagrams, EPLAN macros,)
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teristic: Tripping characteristics, I ² t, Let-through current	· · · · ·
upport.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA10/cha	r
characteristics (e.g. electrical endurance, switching freque	– ency)
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