SIEMENS

Data sheet

3RV1011-0DA10



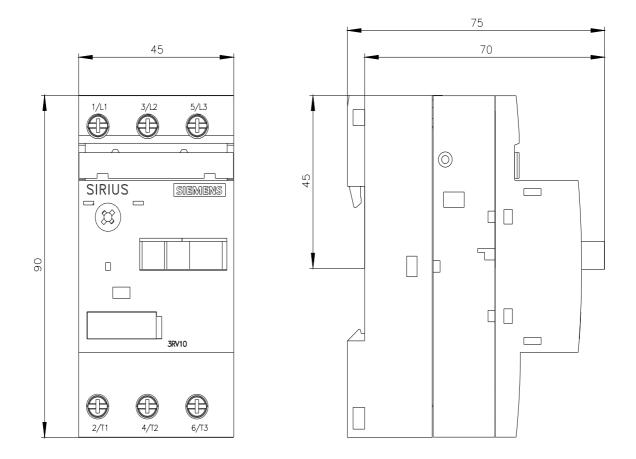
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.22...0.32 A N-release 4.2 A Screw terminal Screw terminal Standard switching capacity

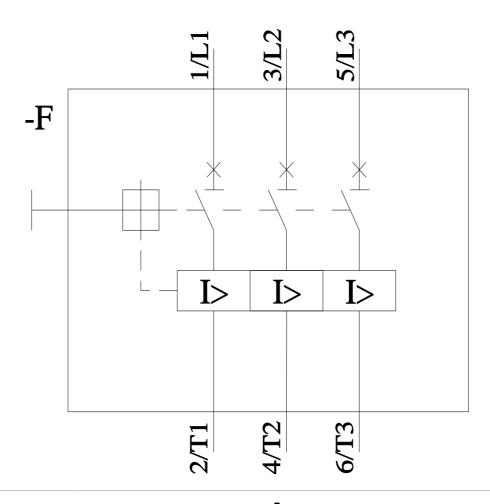
473 473	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV1
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	5.5 W
 at AC in hot operating state per pole 	1.8 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
 of auxiliary contacts typical 	100 000
electrical endurance (operating cycles) typical	100 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	01/01/2013
SVHC substance name	Lead - 7439-92-1
Weight	0.23 kg
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
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	0.22 0.32 A
type of voltage for main current circuit	AC
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	0.32 A
operational current	

 at AC-3 at 400 V rated value 	0.32 A		
 at AC-3e at 400 V rated value 	0.32 A		
operating power			
• at AC-3			
— at 230 V rated value	0 kW		
— at 400 V rated value	0.09 kW		
— at 500 V rated value	0.12 kW		
— at 690 V rated value	0.12 kW		
• at AC-3e			
— at 230 V rated value	0 kW		
— at 400 V rated value	0.09 kW		
— at 500 V rated value	0.12 kW		
— at 690 V rated value	0.12 kW		
operating frequency			
• at AC-3 maximum	15 1/h		
• at AC-3e maximum	15 1/h		
Auxiliary circuit			
type of voltage for auxiliary and control circuit	AC/DC		
number of NC contacts for auxiliary contacts	0		
number of NO contacts for auxiliary contacts	0		
number of CO contacts for auxiliary contacts	0		
	0		
Protective and monitoring functions			
product function	No		
ground fault detection	No		
phase failure detection	Yes		
trip class	CLASS 10		
design of the overload release	thermal		
maximum short-circuit current breaking capacity (Icu)	400.1.4		
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		
operating short-circuit current breaking capacity (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		
response value current of instantaneous short-circuit trip unit	4.2 A		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
● at 480 V rated value	0.32 A		
● at 600 V rated value	0.32 A		
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 240 V	none required		
• at 400 V	None required		
• at 500 V	None required		
• at 690 V	None required		
Installation/ mounting/ dimensions			
mounting position	any		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715		
height	90 mm		
width	45 mm		
depth	75 mm		
required spacing			
 for grounded parts at 400 V 			
— downwards	20 mm		
— upwards	20 mm		

— at the side	9 mm
 for live parts at 400 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
 for grounded parts at 500 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
 for live parts at 500 V 	
— downwards	20 mm
— upwards	20 mm
— at the side	9 mm
 for grounded parts at 690 V 	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
• for live parts at 690 V	
— downwards	20 mm
— upwards	20 mm
— backwards	0 mm
— at the side	9 mm
— forwards	0 mm
Connections/ Terminals	
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	
• for main contacts	
colid or other dod	$\Omega_{11} = (0.5 \pm 1.5 \text{ mamo}^2) \Omega_{11} = (0.75 \pm 0.5 \text{ mamo}^2) \Omega_{11} = (1.5 \text{ mamo}^2)$
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x (1 4 mm ²)
- finely stranded with core end processing	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), 2x (1 4 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded 	
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts for main contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts for main contacts 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function safety-related switching on safety-related switching OFF safety-related service life necessary 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts groduct function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 %
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 %
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 with high demand rate according to SN 31920 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 %
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000
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 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with how demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 ISO 13849	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes 10 a Yes 40 % 50 % 5 000 50 FIT
 finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts Safety related data product function suitable for safety function suitability for use safety-related switching on safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 0.8 1.2 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M3 Yes No Yes 10 a Yes 40 % 50 % 5 000 50 FIT

afety device type acc lectrical Safety			Туре А			
protection class IP on the front according to IEC 60529		IP20				
•	e front according to IEC	60529	finger-safe, for vertical contact	from the front		
lisplay						
isplay version for swite provals Certificates	ching status		Rocker switch			
General Product App	oval					
	CE EG-Konf.	UK CA	U	KC	EHC	
General Product Ap- proval	For use in hazardous	locations	Test Certificates		Marine / Shipping	
BIS CRS	K ATEX	IECEx	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS	
larine / Shipping						
BUREAU VERITAS		Lloyds Register urs	PRS	RINA	RMRS	
other			Railway	Environment		
Confirmation	<u>Miscellaneous</u>		<u>Special Test Certific-</u> <u>ate</u>	Environmental Con- firmations		
rther information	ckaging siemens.com/cs/ww/en/vie	ew/109813875				
formation- and Dow ttps://www.siemens.co idustry Mall (Online o	nloadcenter (Catalogs, B <u>m/ic10</u>	rochures,)	-3RV1011-0DA10			
ax online generator			?lang=en&mlfb=3RV1011-0DA1	0		
ervice&Support (Mar	nuals, Certificates, Chara	cteristics, FAQ	,)	<u>v</u>		
nage database (prod	<u>siemens.com/cs/ww/en/ps</u> uct images, 2D dimensio siemens.com/bilddb/cax_d	n drawings, 3D	nodels, device circuit diagram	s, EPLAN macros,)		
haracteristic: Trippir	ng characteristics, I ² t, Let siemens.com/cs/ww/en/ps	t-through currer	t			
	s (e.g. electrical enduran	ce, switching fr				





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