SIEMENS

Data sheet

3RV2011-0GA10



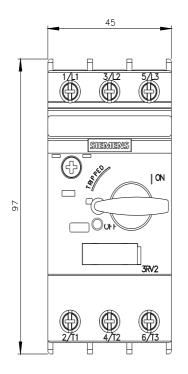
Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A screw terminal Standard switching capacity

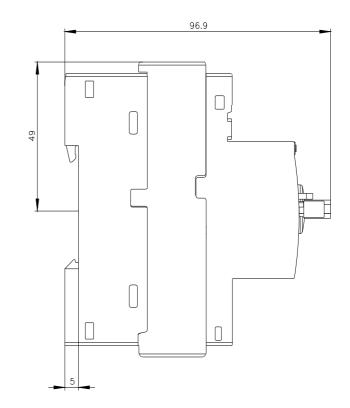
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product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S00
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state 	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
shock resistance according to IEC 60068-2-27	25g / 11 ms
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
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 according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
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	0.45 0.63 A
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	0.63 A

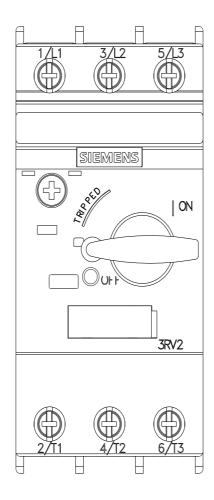
operational current	0.00.4
• at AC-3 at 400 V rated value	0.63 A
at AC-3e at 400 V rated value	0.63 A
operating power • at AC-3	
• at AC-3 — at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
• at AC-3e	
— at 230 V rated value	0.1 kW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.2 kW
— at 690 V rated value	0.3 kW
operating frequency	
• at AC-3 maximum	15 1/h
 at AC-3e 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
 phase failure detection 	Yes
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (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 	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	8.2 A
UL/CSA ratings	
-	
full load current (ELA) for 3 phase AC motor	
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	0.63.4
• at 480 V rated value	0.63 A 0.63 A
at 480 V rated valueat 600 V rated value	0.63 A 0.63 A
at 480 V rated value at 600 V rated value Short-circuit protection	0.63 A
at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection	0.63 A Yes
at 480 V rated value at 600 V rated value Short-circuit protection	0.63 A
at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	0.63 A Yes
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V 	0.63 A Yes magnetic
at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions	0.63 A Yes magnetic
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V 	0.63 A Yes magnetic gL/gG 6 A
at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 690 V Installation/ mounting/ dimensions mounting position fastening method	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing 	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side 	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V 	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm 0 mm
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V — downwards 	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm 0 mm 30 mm
 at 480 V rated value at 600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting at the side for grounded parts at 400 V 	0.63 A Yes magnetic gL/gG 6 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm 0 mm

a far live parts at 400 V		
for live parts at 400 V	00	
— downwards	30 mm	
— upwards	30 mm	
— at the side	9 mm	
 for grounded parts at 500 V 	00	
— 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	50	
— downwards	50 mm	
— upwards	50 mm	
— backwards	0 mm	
— at the side	30 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		
— 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	
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 size 2	
design of the thread of the connection screw	MO	
for main contacts	M3	
Safety related data		
B10 value		
 with high demand rate according to SN 31920 	5 000	
proportion of dangerous failures		
 with low demand rate according to SN 31920 	50 %	
 with high demand rate according to SN 31920 	50 %	
failure rate [FIT]		
 with low demand rate according to SN 31920 	50 FIT	
T1 value for proof test interval or service life according to	10 a	
IEC 61508	1000	
protection class IP on the front according to IEC 60529	IP20	
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front	
display version for switching status	Handle	
Certificates/ approvals		
General Product Approval		For use in hazard-
		ous locations
Confirmation	KC	
		(5~)
	CUT	<u>v</u>
CCC UL		ATEX

For use in hazard- ous locations	Declaration of Cor	formity	Test Certificates		Marine / Shipping
IECEX	C C EG-Konf.	UK CA	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					other
		Lloyd's Register uis	PRS	RINA	<u>Confirmation</u>
other	Railway				
UDE VDE	<u>Confirmation</u>	Vibration and Shock			
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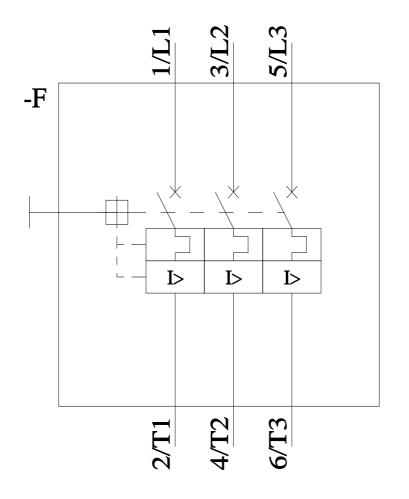






4/19/2023

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