SIEMENS

Data sheet

3RV2021-0JA15



Circuit breaker size S0 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

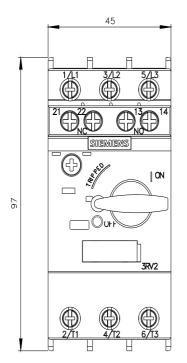
product brand name SIRIUS product designation Circuit breaker design of the product For motor protection grout type designation SIV2 Central tachnical data SIV size of the circuit-breaker SI size of the circuit-breaker SI of contactor can be combined company-specific SIV2 product extension auxiliary switch Yes ord 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 680 V surge voltage resistance rated value 640 V surge voltage rosistance according to IEC 60068-277 25g /11 ms mechanical service IIFe (operating cycles) 100 000 of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 <th>4/15</th> <th></th>	4/15	
design of the product For motor protection graduct type designation 3RV2 conneral texchined data size of the circuit-breaker S0 size of contactor can be combined company-specific S0, 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 successful states are ared value 6 KV shock resistance according to IEC 60068-227 25g/ 11 ms mechanical service IIf6 (operating cycles) 00 000 • of the main contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to ATEX directive 2014/34/EU EX II (2) GD certificate of suitability according to ATEX directive 2014/34/EU EX II (2) GD reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions -20 460	product brand name	SIRIUS
product type designation 3RV2 General tachnical data	product designation	Circuit breaker
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• 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 1 A	operating voltage	
• at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 1 A	rated value	20 690 V
operating frequency rated value 50 60 Hz operational current rated value 1 A	 at AC-3 rated value maximum 	690 V
operational current rated value 1 A	 at AC-3e rated value maximum 	690 V
•	operating frequency rated value	50 60 Hz
operational current	operational current rated value	1 A
	operational current	

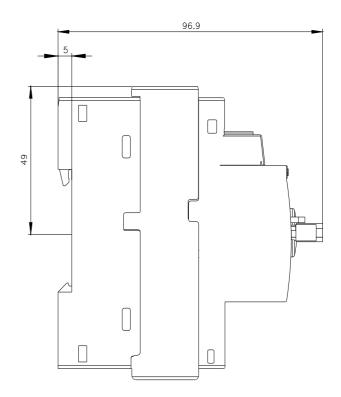
 at AC-3 at 400 V rated value 	1 A
 at AC-3e at 400 V rated value 	1 A
operating power	
• at AC-3	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.3 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
• at AC-3e	
— at 230 V rated value	0.2 kW
— at 400 V rated value	0.3 kW
— at 500 V rated value	0.4 kW
— at 690 V rated value	0.6 kW
	0.0 KW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e maximum	15 1/h
Auxiliary circuit	
design of the auxiliary switch	transverse
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	
• at 24 V	2 A
● 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 24 V	0.15 A
	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
maximum short-circuit current breaking capacity (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
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
• at 400 V rated value	
	100 kA
	100 kA
• at 500 V rated value	100 kA
at 500 V rated valueat 690 V rated value	100 kA 100 kA
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit	100 kA
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings	100 kA 100 kA
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	100 kA 100 kA 13 A
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings	100 kA 100 kA
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	100 kA 100 kA 13 A
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value	100 kA 100 kA 13 A 1 A
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value	100 kA 100 kA 13 A 1 A
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp]	100 kA 100 kA 13 A 1 A
 at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor for 3-phase AC motor 	100 kA 100 kA 13 A 1 A 1 A
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 at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor for 3-phase AC motor at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection 	100 kA 100 kA 13 A 1 A 1 A 0.5 hp C300 / R300 Yes
 at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip 	100 kA 100 kA 13 A 1 A 1 A 0.5 hp C300 / R300
 at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link 	100 kA 100 kA 13 A 1 A 1 A 0.5 hp C300 / R300 Yes magnetic
 at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for 3-phase AC motor at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip 	100 kA 100 kA 13 A 1 A 1 A 1 A 0.5 hp C300 / R300 Yes magnetic Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400
 at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value yielded mechanical performance [hp] for 3-phase AC motor at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link 	100 kA 100 kA 13 A 1 A 1 A 0.5 hp C300 / R300 Yes magnetic

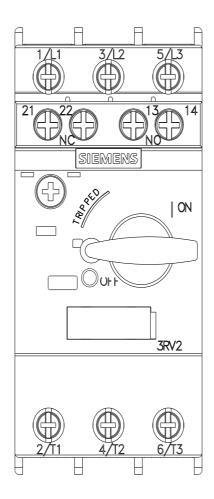
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
with side-by-side mounting at the side	0 mm
 for grounded parts at 400 V 	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	- Think
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for grounded parts at 500 V 	3 1111
- downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 500 V	20
— 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	
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 (1 2.5 mm²), 2x (2.5 10 mm²)
— finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 for AWG cables for main contacts 	2x (16 12), 2x (14 8)
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 mm ²), 2x (0.75 2.5 mm ²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary 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	
for main contacts	M4
 of the auxiliary and control contacts 	M3
Safety related data	
B10 value	

 with high demand rate according to SN 3² 	1920	5 000		
proportion of dangerous failures				
 with low demand rate according to SN 31920 		50 %		
 with high demand rate according to SN 3² 	1920	50 %		
failure rate [FIT]				
 with low demand rate according to SN 31 	920	50 FIT		
T1 value for proof test interval or service life acc 61508	ording to IEC	10 a		
protection class IP on the front according to	IEC 60529	IP20		
touch protection on the front according to IE	C 60529	finger-safe, for vertical contact	from the front	
display version for switching status		Handle		
Certificates/ approvals				
General Product Approval			For use in hazardous	locations
Confirmation Cccc	(UL) UL	EHC	IECEx	KEX ATEX
Declaration of Conformity	Test Certificate	'S	Marine / Shipping	
	<u>Type Test Cert</u> ates/Test Rep	ific- <u>Special Test Certific-</u> ort <u>ate</u>	ABS	BUREAU VERITAS
Marine / Shipping			other	
	PRS	RINA	<u>Confirmation</u>	UDE VDE
Railway				
Confirmation Vibration and Shock				

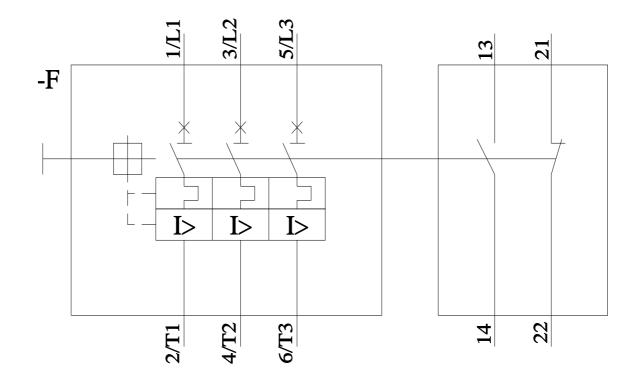
	ens has decided to exit the Russian market (see here). /press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
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