SIEMENS

Data sheet

3RV2021-0AA10



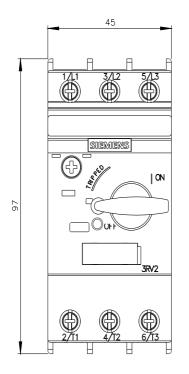
Circuit breaker size S0 for motor protection, Class 10 A-release 0.11...0.16 A Short-circuit release 2.1 A Screw terminal Standard switching capacity

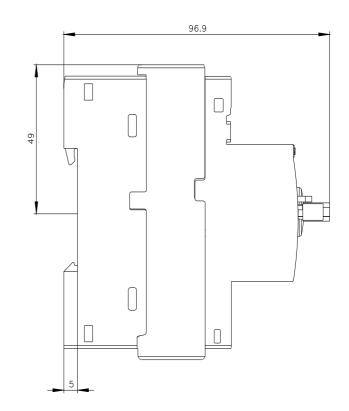
4/12 6/15	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power 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	0.11 0.16 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	0.16 A
operational current	

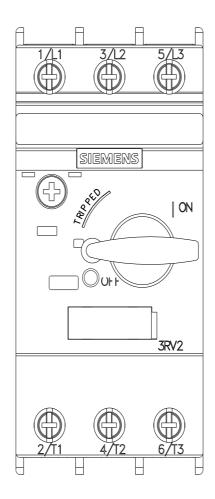
• at AC-3 at 400 V rated value	0.16 A
 at AC-3e at 400 V rated value 	0.16 A
operating power	
• at AC-3	
— at 230 V rated value	0 kW
— at 400 V rated value	0 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 kW
• at AC-3e	
— at 230 V rated value	0 kW
— at 400 V rated value	0 kW
— at 500 V rated value	0.1 kW
— at 690 V rated value	0.1 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
· · · · · · · · · · · · · · · · · · ·	thermal
design of the overload release	liema
maximum short-circuit current breaking capacity (Icu)	400 14
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	2.1 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	0.16 A
• at 600 V rated value	0.16 A
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
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	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
- at the side	3 11111

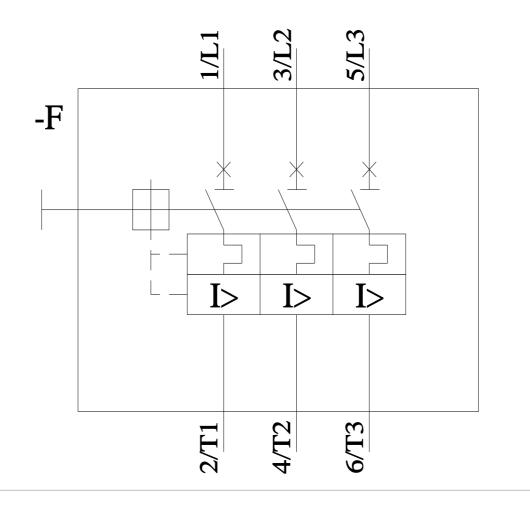
 for grounded parts 	s at 500 V				
 for grounded parts downwards 	s at 500 v	30 mm			
		30 mm			
— upwards					
— at the side	20.14	9 mm			
 for live parts at 50 	10 V				
— downwards		30 mm			
— upwards		30 mm			
— at the side		9 mm			
 for grounded parts 	s at 690 V				
— downwards		50 mm			
— upwards		50 mm			
— backwards		0 mm			
— at the side		30 mm			
— forwards		0 mm			
 for live parts at 69 	90 V				
— downwards		50 mm			
— upwards		50 mm			
— backwards		0 mm			
— at the side		30 mm			
— forwards		0 mm			
Connections/ Terminals					
type of electrical conne	ection				
 for main current cit 	ircuit	screw-type terminals			
	cal connectors for main current	Top and bottom			
circuit	onductor cross-sections				
 for main contacts 					
— solid or strar	nded	2x (1 2.5 mm²), 2x (2.5 10 mm²)			
	ed with core end processing	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²			
 for AWG cables for 		2x (16 12), 2x (14 8)			
tightening torque		2x (10 12), 2x (11 0)			
	with screw-type terminals	2 2.5 N·m			
design of screwdriver		Diameter 5 to 6 mm			
size of the screwdriver		Pozidriv size 2			
design of the thread of	-				
• for main contacts	the connection screw	M4			
Safety related data		1VI 1			
B10 value		5 000			
ů –	I rate according to SN 31920	5 000			
proportion of dangerou					
	rate according to SN 31920	50 %			
	I rate according to SN 31920	50 %			
failure rate [FIT]					
	rate according to SN 31920	50 FIT			
T1 value for proof test in 61508	terval or service life according to IEC	10 a			
	the front according to IEC 60529	IP20			
-	e front according to IEC 60529	finger-safe, for vertical contact from the front			
display version for switch		Handle			
Certificates/ approvals	- 				
General Product Appro	oval		For use in hazard- ous locations		
Confirmation	\sim	KC	~		
	() ()	EAC	(x 3)		
	UL		- 11 M		
For use in hazard- ous locations	Declaration of Conformity	Test Certificates	Marine / Shipping		
	Declaration of Conformity	Test Certificates	Marine / Shipping		

IECE×	UK CA	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					other
B U REAU VERITAS		Lloyd's Register us	PRS	RINA	<u>Confirmation</u>
other	Railway				
VDE VDE	Vibration and Shock	<u>Confirmation</u>			
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