SIEMENS

Data sheet

3RV2021-0BA10



Circuit breaker size S0 for motor protection, Class 10 A-release 0.14...0.2 A Shortcircuit release 2.6 A Screw terminal Standard switching capacity

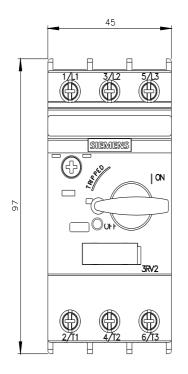
4/12 6/15	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	For motor protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	S0
size of contactor can be combined company-specific	S00, S0
product extension auxiliary switch	Yes
power 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	0.14 0.2 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	0.2 A
operational current	

 at AC-3 at 400 V rated value 	0.2 A			
 at AC-3e at 400 V rated value 	0.2 A			
operating power				
• at AC-3				
— at 230 V rated value	0 kW			
— at 400 V rated value	0.1 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	0.1 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	A la			
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	2.6 A			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
• at 480 V rated value	0.2 A			
• at 600 V rated value	0.2 A			
Short-circuit protection				
product function short circuit protection	Yes			
design of the short-circuit trip	magnetic			
Installation/ mounting/ dimensions				
mounting position	any			
	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715			
fastening method				
height	97 mm			
width	45 mm			
depth	97 mm			
required spacing	0			
• 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			

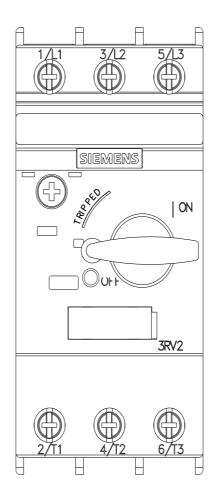
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals General Product Approval Confirmation	50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle For use in hazard- ous locations KC EFRE KC ATEX				
T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals General Product Approval	10 a IP20 finger-safe, for vertical contact from the front Handle For use in hazard- ous locations				
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T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529	10 a IP20				
T1 value for proof test interval or service life according to IEC 61508	10 a				
	50 FIT				
with low demand rate according to SN 31920					
failure rate [FIT]					
with high demand rate according to SN 31920	50 %				
with low demand rate according to SN 31920	50 %				
proportion of dangerous failures					
 B10 value with high demand rate according to SN 31920 	5 000				
Safety related data					
for main contacts	M4				
design of the thread of the connection screw					
size of the screwdriver tip	Pozidriv size 2				
design of screwdriver shaft	Diameter 5 to 6 mm				
 for main contacts with screw-type terminals 	2 2.5 N·m				
tightening torque					
for AWG cables for main contacts	2x (16 12), 2x (14 8)				
— finely stranded with core end processing	2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ²				
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)				
for main contacts					
circuit					
arrangement of electrical connectors for main current	Top and bottom				
for main current circuit	screw-type terminals				
type of electrical connection					
Connections/ Terminals					
— forwards	0 mm				
— at the side	30 mm				
— backwards	0 mm				
— upwards	50 mm				
for live parts at 690 v — downwards	50 mm				
 — forwards ● for live parts at 690 V 	0 mm				
— at the side	30 mm				
— backwards	0 mm				
— upwards	50 mm				
— downwards	50 mm				
 for grounded parts at 690 V 					
— at the side	9 mm				
— upwards	30 mm				
— downwards	30 mm				
• for live parts at 500 V					
— at the side	9 mm				
— upwards	30 mm				
dominidado					
 for grounded parts at 500 V downwards 	30 mm				

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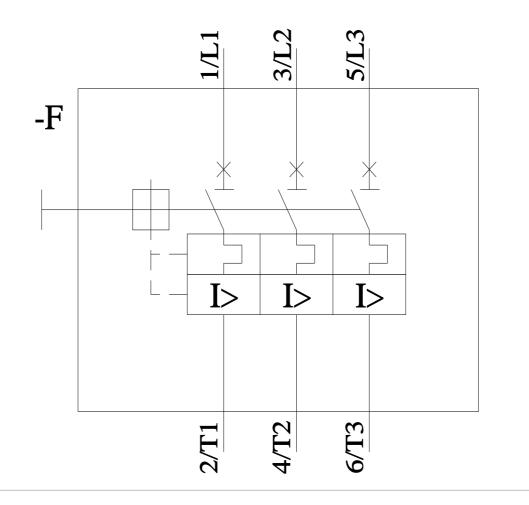
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Marine / Shipping					other
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other	Railway				
VDE	<u>Vibration and Shock</u>	<u>Confirmation</u>			
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