SIEMENS

Data sheet 3RV2021-1AA15



Circuit breaker size S0 for motor protection, CLASS 10 A-release 1.1...1.6 A N-release 21 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
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 	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
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (switching 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	1.1 1.6 A
operating voltage	
• rated value	20 690 V
 at AC-3 rated value maximum 	690 V
• at AC-3e rated value maximum	690 V

operational current rated value	onerating frequency rated value	50 60 H -
Operating power	operating frequency rated value	50 60 Hz
	<u> </u>	1.0 A
■ at AC-3e at 400 V rated value Operating power ■ at AC-3 ■ at 200 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 820 V rated value 15 1th ■ at 820 V rated value 15 1th ■ at 820 V rated value 15 1th ■ at 820 V rated value 16 1th 17 1th 18 1th	•	16 /
operating power ■ at AGO 7 and value — at 400 7 rated value — at 500 0 rated value — at 230 0 rated value — at 500 0 rated value — at 600 rated		
• at AC-3		1.6 A
at 230 V rated value		
		0.0111/
— at 690 V rated value		
		1.1 kW
operating frequency • at AC-3 emaximum 15 1/h Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 1 number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts • at 24 V • at 120 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 80 V operational current of auxiliary contacts at DC-13 • at 24 V • at 80 V Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • prace failure detection • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 4500 V rated value • at AC at 500 V rated value • at 400 V rated value • at 500 V rated value • at 600	— at 400 V rated value	
operating frequency	— at 500 V rated value	
at AC-3 maximum at AC-3 maximum by at AC-3e m		1.1 kW
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Auxiliary circuit design of the auxiliary switch transverse	• at AC-3 maximum	15 1/h
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number of NC contacts for auxiliary contacts 1	design of the auxiliary switch	transverse
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		2 A
• at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V 0.15 A Protective and monitoring functions product function • ground fault detection • phase failure detection • phase failure detection • phase failure detection • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 590 V rated value • at AC at 590 V rated value • at AC at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 690	• at 120 V	0.5 A
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Protective and monitoring functions product function • ground fault detection • phase failure detection trip class design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 440 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 240 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 480 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 290 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 290 V rated value • at 690		
product function • ground fault detection • phase failure detection • phase failure detection * product function • phase failure detection * yes trip class CLASS 10 design of the overload release breaking capacity maximum short-circuit current (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 690 V rated value breaking capacity operating short-circuit current (Ics) at AC • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 240 V rated value 100 kA • at 250 V rated value 1.6 A 1.6 A 1.6 A 9 in for single-phase AC motor — at 230 V rated value • for 3-phase AC motor		0.1071
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 at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value for 3-phase AC motor 		16 /
yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor		
 for single-phase AC motor — at 230 V rated value for 3-phase AC motor 0.1 hp 		1.0 A
— at 230 V rated value• for 3-phase AC motor		
• for 3-phase AC motor		0.4 hrs
		U.1 np
— at 460/480 V rated value 1 hp	·	
	— at 460/480 V rated value	1 np

— at 575/600 V rated value	0.8 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	0000711000
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link	·
 for short-circuit protection of the auxiliary switch 	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
required	Ik < 400 Å)
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
• for live parts at 400 V	20
— downwards	30 mm 30 mm
— upwards — at the side	9 mm
for grounded parts at 500 V	9 111111
— 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 	
— 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
at AWG cables for main contacts	2x (16 12), 2x (14 8)
type of connectable conductor cross-sections	
for auxiliary contacts	0. (0.5
— 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 mm²), 2x (0.75 2.5 mm²)
 at 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 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 IEC 61508	10 y
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
0	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates









Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-1AA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1AA15

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

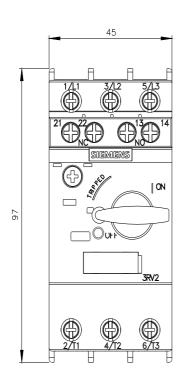
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1AA15

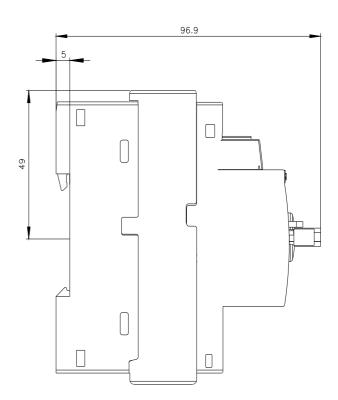
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1AA15&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1AA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1AA15&objecttype=14&gridview=view1





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