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
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 (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	0.7 1 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	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
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	1 A
● at 60 V	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 (lcs)	
at AC	400 kA
at 240 V rated value at 400 V rated value	100 kA
at 400 V rated value at 500 V rated value	100 kA
at 500 V rated valueat 690 V rated value	100 kA 100 kA
eat 690 v rated value response value current of instantaneous short-circuit trip	100 KA 13 A
unit	107
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	1 A
at 600 V rated value	1 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 575/600 V rated value	0.5 hp
contact rating of auxiliary contacts according to UL	C300 / R300
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the short-circuit trip	
for short-circuit protection of the auxiliary switch	Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current
	1 doc ge/go. To 71, Illinatare offour breaker of 71 tonort offour our cit
required	Ik < 400 A)

mounting position any sceward snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 5 mm width 45 mm 45 mm 45 mm 45 mm 50 mm 7 mm	nstallation/ mounting/ dimensions	
March September Septembe		any
height width 45 mm 45 m	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN
width depthy apacing required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — at the side — poywards — upwards — poywards — poywards — at the side — powwards — poywards — backwards — backwards — poywards — backwards — poywards — poywards — onwards — poywards — backwards — powwards — powwards — powwards — powwards — powwards — powwards — backwards — powwards — powwards — backwards — backwards — backwards — backwards — backwards — onwards — or owards — or		
depth	_	
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• with side-by-side mounting at the side	depth	97 mm
• for grounded parts at 400 V — downwards — upwards — of the side — upwards — upwards — upwards — upwards — at the side — upwards — of the grounded parts at 500 V — downwards — upwards — of rile parts at 500 V — downwards — upwards — upwards — upwards — on- upwards — upwards — upwards — upwards — upwards — on- upwards — upwards — on- upwards — on- upwards — upwards — upwards — on- upwards — upwards — on- upwards — upwards — on- upwards — on- upwards — upwards — on- upwards — on	required spacing	
downwards	 with side-by-side mounting at the side 	0 mm
- upwards	 for grounded parts at 400 V 	
at the side	— downwards	30 mm
• for live parts at 400 V	— upwards	30 mm
downwards	— at the side	9 mm
downwards	 for live parts at 400 V 	
at the side		30 mm
at the side	— upwards	30 mm
• for grounded parts at 500 V	•	
downwards upwards upwards at the side for live parts at 500 V downwards upwards at the side at the side at the side downwards at the side downwards upwards downwards upwards upwards upwards backwards upwards backwards at the side forwards at the side forwards on mm forwards on mm forwards upwards backwards upwards backwards upwards u		
upwards	-	30 mm
- at the side • for live parts at 500 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - upwards - backwards - at the side - forwards - forwards - for live parts at 890 V - downwards - for live parts at 890 V - downwards - for live parts at 890 V - downwards - upwards - upwards - for live parts at 890 V - downwards - upwards - or live parts at 890 V - downwards - upwards - or live parts at 890 V - downwards - upwards - or live parts at 890 V - downwards - upwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - downwards - or live parts at 890 V - or main current circuit - for main contacts - or auxiliary contacts - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded with core end processing - at the side - finely stranded wit		
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upwards at the side for grounded parts at 690 V downwards backwards at the side forwards at the side forwards at the side forwards forwards forwards forwards forwards forwards forwards upwards forwards forwards forwards backwards backwards backwards backwards backwards forwards forwards forwards for main current circuit for auxiliary and control circuit for auxiliary and control circuit for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts for main contacts for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals for auxiliary contacts with screw-type terminals for for main contacts with screw-type terminals for for auxiliary contacts with screw-type terminals for for main contacts with screw-type termi		30 mm
- at the side 9 mm • for grounded parts at 690 V — downwards 50 mm — backwards 0 mm — at the side 30 mm — forwards 0 mm • for live parts at 690 V — downwards 50 mm • for live parts at 690 V — downwards 50 mm — backwards 0 mm • for live parts at 690 V — downwards 50 mm — backwards 0 mm — backwards 0 mm — backwards 0 mm — backwards 0 mm — the side 30 mm — forwards 0 mm — for main current circuit screw-type terminals 10 mm of contacts 10 mm o		
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backwards at the side forwards for live parts at 690 V downwards upwards backwards upwards backwards at the side forwards at the side forwards at the side forwards on mm for main contacts solid or stranded finely stranded with core end processing of at AWC cables for main contacts solid or stranded finely stranded with core end processing of on auxiliary contacts solid or stranded finely stranded with core end processing of on auxiliary contacts solid or stranded finely stranded with core end processing of on auxiliary contacts solid or stranded finely stranded with core end processing of on auxiliary contacts solid or stranded finely stranded with core end processing of on auxiliary contacts solid or stranded finely stranded with core end processing of on auxiliary contacts solid or stranded finely stranded with screw-type terminals of or auxiliary contacts with screw-type terminals of or auxiliary contacts with screw-type terminals of or auxiliary contacts with screw-type terminals of or main contacts with screw-type terminals of on min contacts with screw-type terminals on the terminal screw-type terminals o		
- at the side	•	
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- at the side — forwards 0 mm 0 m	— upwards	50 mm
Top and bottom for main current circuit of or auxiliary and control cross-sections of or main contacts of or auxiliary contacts of or auxiliary contacts of or auxiliary contacts of or main contacts with screw-type terminals of or auxiliary contacts with screw-type terminals of the screwdriver tip design of the thread of the connection screw of or main contacts of the auxiliary and control contacts M4 of the auxiliary and control contacts M3 Safety related data B10 value	— backwards	0 mm
type of electrical connection	— at the side	30 mm
type of electrical connection	— forwards	0 mm
type of electrical connection	Connections/ Terminals	
• for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts		
 for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts for auxiliary contacts solid or stranded at AWG cables for main contacts for auxiliary contacts for auxiliary contacts at AWG cables for auxiliary contacts for auxiliary contacts at AWG cables for auxiliary contacts for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals for main contacts with screw-type terminals for main contacts for main contac		screw-type terminals
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circuit type of connectable conductor cross-sections	•	
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts — solid or stranded — finely stranded with core end processing • at AWG cables for auxiliary contacts • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts • for main contacts • for auxiliary and control contacts M4 • of the auxiliary and control contacts B10 value	•	TOP AND DOLLOTT
 for main contacts — solid or stranded — finely stranded with core end processing		
- solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • at AWG cables for main contacts • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - finely stranded with core end processing • at AWG cables for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts • for		
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 at AWG cables for main contacts type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing at AWG cables for auxiliary contacts at AWG cables for auxiliary contacts for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals Diameter 5 to 6 mm pozidriv size 2 Pozidriv size 2 M4 of the auxiliary and control contacts M3 Safety related data B10 value		
• for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts •		
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- solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts • for main contacts • of the auxiliary and control contacts • of the auxiliary and control contacts B10 value		
 — finely stranded with core end processing ♦ at AWG cables for auxiliary contacts 12x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14) 12x (20 16), 2x (18 14) 13x (18 14) 14x (19 14) 15x (19 14) 1		2v (0.5 1.5 mm²) 2v (0.75 2.5 mm²)
at AWG cables for auxiliary contacts tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • design of screwdriver shaft		
tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts M4 Safety related data B10 value		
• for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts M4 • of the auxiliary and control contacts M3 Safety related data B10 value		2x (20 16), 2x (18 14)
• for auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts B10 value 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 M4 M3 Safety related data		
design of screwdriver shaft size of the screwdriver tip esign of the thread of the connection screw • for main contacts • of the auxiliary and control contacts B10 value Diameter 5 to 6 mm Pozidriv size 2 M4 M4 M3 M3 Safety related data		
size of the screwdriver tip design of the thread of the connection screw		
design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts M3 Safety related data B10 value	design of screwdriver shaft	Diameter 5 to 6 mm
for main contacts of the auxiliary and control contacts M3 Safety related data B10 value	size of the screwdriver tip	Pozidriv size 2
for main contacts of the auxiliary and control contacts M3 Safety related data B10 value		
B10 value	design of the thread of the connection screw	
B10 value	_	M4
B10 value	• for main contacts	
	for main contacts of the auxiliary and control contacts	
	for main contacts of the auxiliary and control contacts Safety related data	

proportion of dangerous failures

- with low demand rate according to SN 31920
- with high demand rate according to SN 31920

failure rate [FIT]

• with low demand rate according to SN 31920

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

50 %

50 %

50 FIT 10 a

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

For use in hazardous locations

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

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





Marine / Shipping











Confirmation

other

other

Railway



Confirmation

Vibration and Shock

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RV2021-0JA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0JA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0JA15

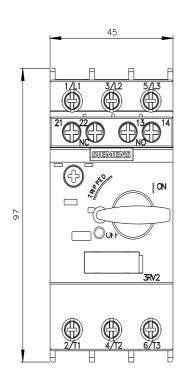
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

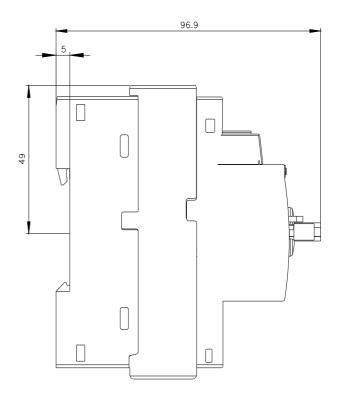
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-0JA15&lang=en

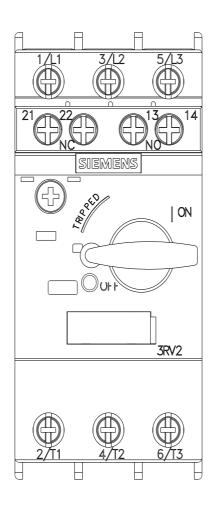
Characteristic: Tripping characteristics, I2t, Let-through current

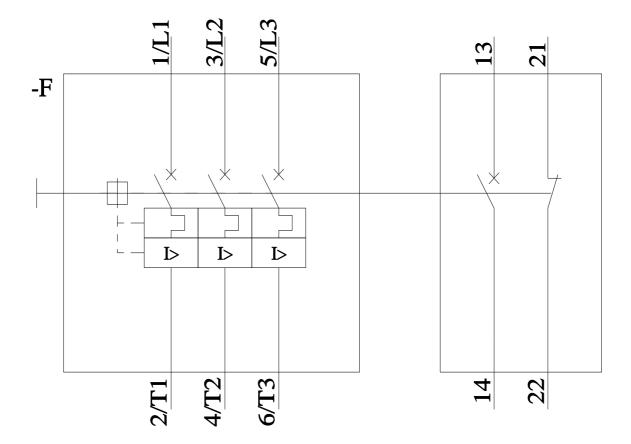
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0JA15/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0JA15&objecttype=14&gridview=view1









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