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	AF A/L
• 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)	tromai
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	400.14
• at 240 V rated value	100 kA
• at 400 V rated value	100 kA
at 500 V rated value	100 kA
	100 kA
at 690 V rated value	100 KA
response value current of instantaneous short-circuit trip unit	13 A
response value current of instantaneous short-circuit trip unit	
response value current of instantaneous short-circuit trip unit UL/CSA ratings	
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor	13 A
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	13 A 1 A
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	13 A 1 A
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]	13 A 1 A
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	13 A 1 A 1 A
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	13 A 1 A 1 A 0.5 hp
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	13 A 1 A 1 A 1 A 0.5 hp C300 / R300
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	13 A 1 A 1 A 1 A 0.5 hp C300 / R300
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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	13 A 1 A 1 A 0.5 hp C300 / R300 Yes magnetic
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	13 A 1 A 1 A 0.5 hp C300 / R300
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	13 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

Section Sect	mounting position	any
height 97 mm depth 97 mm depth 97 mm depth 97 mm coursel 97 mm event sele-y-side mounting at the side 0 mm of or grounded parts at 400 V 30 mm - downwards 30 mm of the sade 9 mm of or live parts at 400 V 30 mm - downwards 30 mm - at the side 9 mm of or grounded parts at 500 V 7 mm - at the side 9 mm of or live parts at 500 V 7 mm - at the side 9 mm of or live parts at 500 V 7 mm - at the side 9 mm - for grounded parts at 600 V 7 mm - at the side 9 mm - for grounded parts at 600 V 7 mm - pupwards 50 mm - backwards 0 mm - pupwards 50 mm - for wards 0 mm - for main comments 0 mm - for wards 0 mm	fastening method	
Septim		
verwits de-by-side mounting at the side	width	45 mm
	depth	97 mm
	required spacing	
		0 mm
- downwards	· · · · · · · · · · · · · · · · · · ·	
- upwards		30 mm
at the side • for live parts at 400 V downwards upwards upwards at the side • for grounded parts at 500 V downwards upwards backwards upwards backwards onmediate side ov on- upwards of in live parts at 880 V downwards on man upwards of in live parts at 880 V downwards on man upwards of in live parts at 880 V downwards on man upwards upwards upwards upwards upwards upwards on man upwards		30 mm
• for live parts at 400 V	•	9 mm
- downwards - upwards - at the side + for grounded parts at 500 V - downwards - upwards - at the side - or live parts at 500 V - downwards - upwards - or live parts at 500 V - downwards - upwards - upwards - upwards - upwards - upwards - upwards - or live parts at 600 V - downwards - upwards - or live parts 4600 V - downwards - or live parts 4600 V - or liv		
- upwards	•	30 mm
- at the side		
• for grounded parts at 500 V	·	
- downwards		
- upwards		30 mm
For live parts at 500 V		
	•	
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- upwards		50 mm
- backwards		
- at the side	·	
• for live parts at 690 V		
• for live parts at 690 V - downwards - upwards - backwards - at the side - forwards - forwards - forwards - forwards - for awiliary and control circuit **refinely stranded with core end processing - for awiliary contacts - solid or stranded - finely stranded with core end processing - for awiliary contacts with screw-type terminals - for awiliary contacts - for main contacts - for main contacts - for main contacts - for the awiliary and control contacts - for the awi		
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- upwards - backwards - at the side - forwards - formains type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • for main cornectos for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for fawG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • for fawG cables for suxiliary contacts - solid or stranded - finely stranded with screw-type terminals - for auxiliary contacts with screw-type terminals • for main contacts • f	·	50 mm
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design of the thread of the connection screw • for main contacts • of the auxiliary and control contacts M3	for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals	2x (20 16), 2x (18 14) 2 2.5 N·m
• for main contacts • of the auxiliary and control contacts M3	for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals	2x (20 16), 2x (18 14) 2 2.5 N·m 0.8 1.2 N·m
• of the auxiliary and control contacts M3	for AWG cables for auxiliary contacts tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of screwdriver shaft	2x (20 16), 2x (18 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm
·	for AWG cables for auxiliary contacts 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	2x (20 16), 2x (18 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm
afety related data	for AWG cables for auxiliary contacts 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	2x (20 16), 2x (18 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2
	for AWG cables for auxiliary contacts 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	2x (20 16), 2x (18 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv size 2

 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 a
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
Certificates/ approvals	

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 Certificate





Marine / Shipping

Lloy Reg





Confirmation

other



Railway

Confirmation Vibration and Shock

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2021-0JA15}$

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, ...)

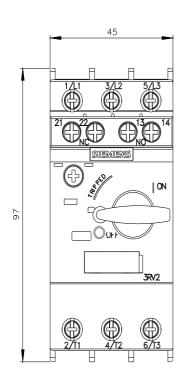
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-0JA15&lang=en

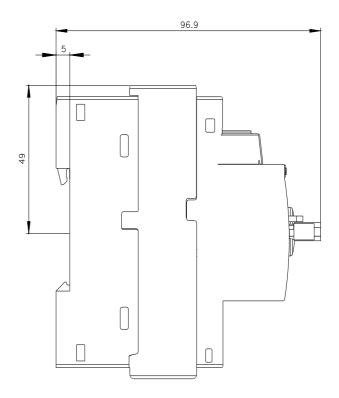
Characteristic: Tripping characteristics, I2t, Let-through current

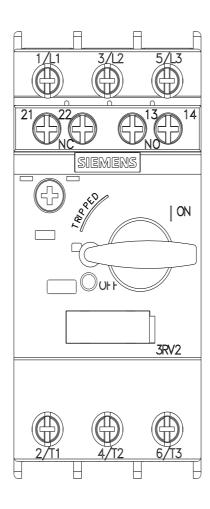
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0JA15/char

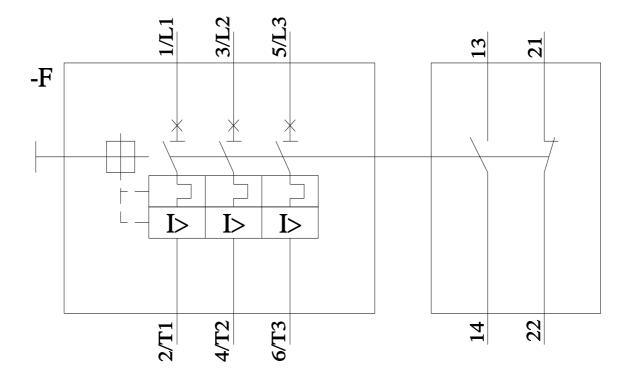
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0JA15&objecttype=14&gridview=view1









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