SIEMENS

Data sheet 3RV2021-4CA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 16...22 A N-release 286 A screw terminal Standard switching capacity

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 	10.5 W	
at AC in hot operating state per pole	3.5 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	
SVHC substance name	Blei - 7439-92-1	
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	16 22 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	22 A	

operational current	
at AC-3 at 400 V rated value	22 A
at AC-3e at 400 V rated value	22 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	18.5 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	No
ground fault detection	
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 	55 kA
 at AC at 500 V rated value 	10 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (Ics) at AC	
 at 240 V rated value 	100 kA
 at 400 V rated value 	25 kA
at 500 V rated value	5 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	286 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	22 A
• at 600 V rated value	22 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	1.5 hp
— at 230 V rated value	3 hp
• for 3-phase AC motor	
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	7.5 hp
— at 460/480 V rated value	15 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit protection of the main circuit	magnesio
protection of the main circuit	
•	al /aG 63 A
● at 400 V	gL/gG 63 A
at 400 V at 500 V	gL/gG 50 A
at 400 Vat 500 Vat 690 V	
at 400 V at 500 V at 690 V Installation/ mounting/ dimensions	gL/gG 50 A gL/gG 50 A
at 400 Vat 500 Vat 690 V	gL/gG 50 A

width 45 mm deepth 97 mm e with side-by-side mounting at the side 0 mm e for grounded parts at 400 V 0 mm — downwards 30 mm — poperate 30 mm — for live parts at 400 V 0 mm — of ownwards 30 mm — poperate 30 mm — operated parts at 500 V 0 mm — or grounded parts at 500 V 0 mm — at the side 9 mm • for grounded parts at 500 V 0 mm — upwards 30 mm — at the side 9 mm • for live parts at 500 V 0 mm — at the side 9 mm • for live parts at 500 V 0 mm — at the side 9 mm • for grounded parts at 500 V 0 mm — at the side 9 mm • for grounded parts at 500 V 0 mm — at the side 9 mm • for grounded parts at 500 V 0 mm — a both side by side parts at 500 V 0 mm — a both side by side parts at 500 V	height	97 mm
	depth	97 mm
• for grounded parts at 400 V	•	
- downwards		0 mm
- downwards		
- at the side		30 mm
- at the side		
• for live parts at 400 V	— at the side	9 mm
- downwards - upwards - at the side - for grounded parts at 500 V - downwards - at the side - to for live parts at 500 V - downwards - upwards - at the side - for five parts at 500 V - downwards - upwards - at the side - for grounded parts at 690 V - downwards - at the side - for grounded parts at 690 V - downwards - to pwards - at the side - to pwards - backwards - backwards - to mm - at the side - for wards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for live parts at 690 V - downwards - for man contacts - the side - on mm - on-wards - on mm - forwards - on for stranded - for ward contacts - solid or stranded - finely stranded with one end processing - for AWG cables for main contacts - solid or stranded - finely stranded with one end processing - for AWG cables for main contacts - solid or stranded - finely stranded with one end processing - for finely stranded with one end processing - for main contacts - solid or stranded - finely stranded with one end processing - for main contacts - solid or stranded - finely stranded with one end processing - for finely stranded with one end processing - for finely stranded with one end processing - for main contacts - solid or stranded - finely stranded with one end processing - for main contacts - solid or stranded - finely stranded with one end processing - for main contacts - solid or stranded - finely stranded with one end processing - for main contacts - solid or stranded - finely stranded with one end processing - for main contacts - solid or strand		
- upwards	·	30 mm
at the side 9 mm		
• for grounded parts at 500 V	·	9 mm
downwards		
upwards		30 mm
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upwards	•	30 mm
■ for grounded parts at 690 V □ downwards		
for grounded parts at 690 V downwards	•	
downwards		Villin
- upwards		50 mm
- backwards		
- at the side - forwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - on man contacts **For main current circuit screw-type terminals **Top and bottom - for main contacts - solid or stranded with core end processing or for MVG cables for main contacts with screw-type terminals **Light end of the connection strew or for main contacts with screw-type terminals 2 2.5 mm², 2x (2.5 10 mm²) - for MVG cables for main contacts 2 2.5 mm², 2x (2.5 10 mm²) - for Avin Cables for main contacts 10 2.5 mm², 2x (2.5 10 mm²) - for for main contacts with screw-type terminals 2 2.5 mm², 2x (2.5 10 mm²) - for main contacts with screw-type terminals 2 2.5 mm² - for main contacts with screw-type terminals 2 2.5 mm - for main contacts with screw-type terminals 2 2.5 mm - for main contacts with screw-type terminals 2 2.5 mm - for main contacts with screw-type terminals 3 2.5 mm - for main contacts with screw-type terminals 4 2.5 mm² - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm - for main contacts with screw-type terminals 5 2.5 mm² - for main contacts with screw-type terminals 5 2.5 mm² - for main contacts with screw-type terminals 5 2.5 mm² - for main contacts with screw-type terminals 5 5 6 mm² - for main contacts with screw-type terminals 5 5 6 mm² - for main contacts with screw-type terminals 5 5 6 mm² - for main contacts with screw-type terminals 5 5 6 mm² - for main contacts with screw-type terminals 5 5 6 mm² - for main contacts with screw-type terminals	·	
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- downwards		O IIIIII
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- at the side — forwards 0 mm Connections/ Terminals type of electrical connection	·	
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T1 value for proof test interval or service life according to IEC 61508 Electrical Safety		
·	T1 value for proof test interval or service life according to	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

Approvals Certificates

General Product Approval







Confirmation



<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







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

Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

Confirmation



Confirmation

EPD Typ II/III (with life cylce assessment)

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=3RV2021-4CA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4CA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4CA10

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

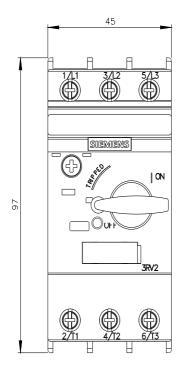
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4CA10&lang=en

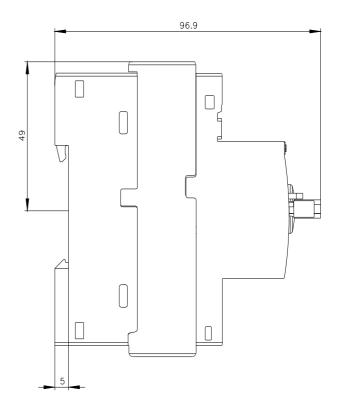
Characteristic: Tripping characteristics, I2t, Let-through current

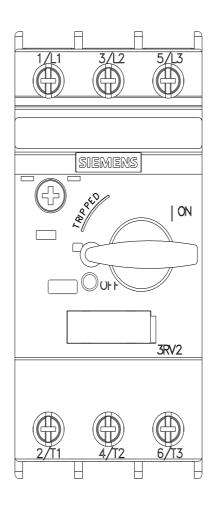
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4CA10/char

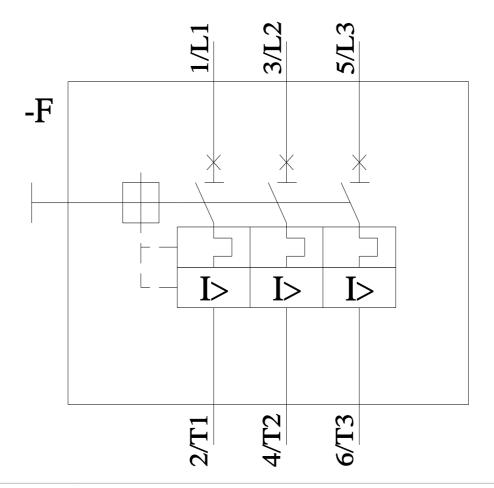
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4CA10&objecttype=14&gridview=view1









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