SIEMENS

Data sheet 3RV2021-1CA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 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 	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
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	1.8 2.5 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	2.5 A

operational current		
A IA C-3 et I4 QO V rated value 0.4 kW - at 2.30 V rated value 0.8 kW - at 3.30 V rated value 0.8 kW - at 5.00 V rated value 1.1 kW - at 5.00 V rated value 1.5 kW - at 5.00 V rated value 1.5 kW - at 5.00 V rated value 1.5 kW - at 5.00 V rated value 0.8 kW - at 4.0-3 km - at 5.00 V rated value 0.8 kW - at 4.0-3 km - at 5.00 V rated value 0.8 kW - at 4.00 V rated value 0.8 kW - at 4.00 V rated value 0.8 kW - at 4.00 V rated value 1.5 kW - at 5.00 km - at	operational current	
Operating power	• at AC-3 at 400 V rated value	2.5 A
* al AC-3	• at AC-3e at 400 V rated value	2.5 A
* al AC-3	operating power	
		0.4 kW
e at AC-3e — at 230 V rated value — at 400 V rated value — at 600 V		
		1.5 KVV
— at 640 V rated value 1,5 kW	— at 400 V rated value	0.8 kW
operating frequency	— at 500 V rated value	1.1 kW
	— at 690 V rated value	1.5 kW
Auxiliary circuit	operating frequency	
Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts Protective and monitoring functions product function ground fault detection hyphase failure detection chasses the contacts of the contacts of the contact of the con	• at AC-3 maximum	15 1/h
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function	• at AC-3e maximum	15 1/h
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function	Auxiliary circuit	
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number of CO contacts for auxiliary contacts Protective and monitoring functions product function • ground fault detection • ground fault detect	-	
Protective and monitoring functions product function e ground fault detection yes class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) e at AC at 240 V rated value e at AC at 400 V rated value 100 kA e at AC at 500 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC e at 240 V rated value 100 kA e at AC at 500 V rated value 100 kA e at AC at 500 V rated value 100 kA e at 400 V rated value 100 kA e at 400 V rated value 100 kA e at 500 V rated value 100 kA e at 500 V rated value 100 kA e at 400 V rated value 100 kA e at 600 V rated value 2.5 A example current of instantaneous short-circuit trip unit ULCSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value 2.5 A yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical performance [hp] e for single-phase AC motor — at 200/208 V rated value 2.5 A yielded mechanical p	<u>*</u>	
product function ground fault detection ground fault detection yes trip class CLASS 10 trip class CLASS 10 thermal maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value 100 kA at AC at 500 V rated value 100 kA at AC at 680 V rated value 100 kA at AC at 680 V rated value 100 kA at AC at 680 V rated value 100 kA at 400 V rated value 200 KA at 500 V rated value 200 KA 400 V rated value 200 V r	i	
ground fault detection phase failure detection yes class design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value 100 kA at AC at 500 V rated value 100 kA at AC at 500 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 500 V rated value 200 V	· · · · · · · · · · · · · · · · · · ·	
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	design of the overload release	thermal
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	• at AC at 690 V rated value	10 kA
	operating short-circuit current breaking capacity (Ics) at AC	
• at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit 33 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 220 V rated value • for 3-phase AC motor — at 220/208 V rated value • of 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 975/600 V rated value 3.5 hp Short-circuit protection product function short circuit protection 46sign of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm depth		100 kA
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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 — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by the formula of the short-circuit protection product function short circuit protection fastening method fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm depth		
yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value product function short circuit protection product function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method height 97 mm width depth 97 mm		
• for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — bhort-circuit protection Product function short circuit protection Yes	• at 480 V rated value	
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 0.5 hp - at 220/230 V rated value 1 hp - at 460/480 V rated value 1 hp - at 575/600 V rated value 1.5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth	at 480 V rated valueat 600 V rated value	
● for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value 1 hp — at 575/600 V rated value 1.5 hp Short-circuit protection product function short circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated valueat 600 V rated value	
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- at 460/480 V rated value 1.5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value	2.5 A
- at 460/480 V rated value 1.5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	 at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 230 V rated value for 3-phase AC motor 	2.5 A 0.17 hp
— at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value	2.5 A 0.17 hp 0.5 hp
Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value	2.5 A 0.17 hp 0.5 hp 0.5 hp
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp
design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection	2.5 A 0.17 hp 0.5 hp 1 hp 1.5 hp
mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 4575/600 V rated value Short-circuit protection product function short circuit protection	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmwidth45 mmdepth97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 4575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp
height 97 mm width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp Yes magnetic
width 45 mm depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp Yes magnetic
depth 97 mm	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp Yes magnetic
·	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
required spacing	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 575/600 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
	at 480 V rated value at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 200/208 V rated value at 220/230 V rated value at 460/480 V rated value at 460/480 V rated value at 575/600 V rated value short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position fastening method height width	2.5 A 0.17 hp 0.5 hp 0.5 hp 1 hp 1.5 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm

 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
• for grounded parts at 500 V	
— 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
arrangement of electrical connectors for main current	Top and bottom
circuit	TOP AND BOLLOTT
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
for AWG cables for main contacts	2x (16 12), 2x (14 8)
tightening torque	
for main contacts with screw-type terminals	2 2.5 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
Safety related data	
proportion of dangerous failures	
with low demand rate according to SN 31920	50 %
with high demand rate according to SN 31920 Substitute rate [FIT] with law demand rate according to SN	50 %
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
B10 value with high demand rate according to SN 31920	5 000
IEC 61508	
T1 value for proof test interval or service life according to IEC 61508	10 a
Electrical Safety	
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
Approvals Certificates	
General Product Approval	







Confirmation



<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report Special Test Certificate



Marine / Shipping







LRS





Miscellaneous

other

other

Railway

Environment

Confirmation



Confirmation

EPD Typ II/III (with life cylce assessment)

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=3RV2021-1CA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1CA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1CA10

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

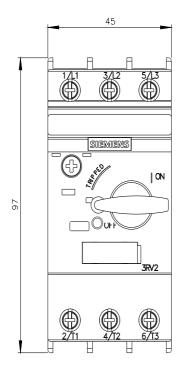
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1CA10&lang=en

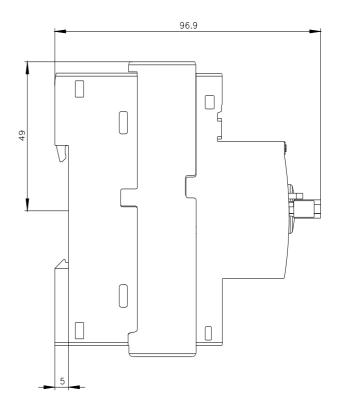
Characteristic: Tripping characteristics, I2t, Let-through current

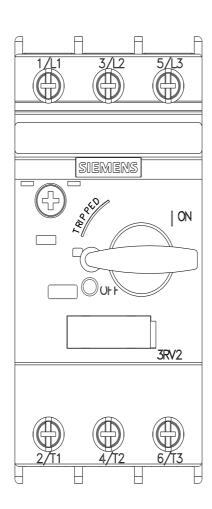
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1CA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1CA10&objecttype=14&gridview=view1









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