SIEMENS

Data sheet



Special type Circuit breaker size S0 for motor protection, CLASS 10 A-release 27...32 A N-release 400 A screw terminal Standard switching capacity Ambient temperature -50 $^{\circ}\text{C}$ 500 switching cycles

uct brand name	SIRIUS
uct designation	Circuit breaker
n of the product	For motor protection
uct type designation	3RV2
ıl technical data	
of the circuit-breaker	SO
of contactor can be combined company-specific	S00, S0
ct extension auxiliary switch	Yes
r loss [W] for rated value of the current	
at AC in hot operating state	13.25 W
at AC in hot operating state per pole	4.4 W
tion voltage with degree of pollution 3 at AC rated value	690 V
e voltage resistance rated value	6 kV
k resistance according to IEC 60068-2-27	25g / 11 ms
anical service life (operating cycles)	
of the main contacts typical	500
of auxiliary contacts typical	500
ical endurance (operating cycles) typical	500
ence code according to IEC 81346-2	Q
tance Prohibitance (Date)	10/01/2009
substance name	Blei - 7439-92-1
nt conditions	
ation altitude at height above sea level maximum	2 000 m
ent temperature	
during operation	-50 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
e humidity during operation	10 95 %
rcuit	
per of poles for main current circuit	3
stable current response value current of the current- ndent overload release	27 32 A
ating voltage	
rated value	20 690 V
at AC-3 rated value maximum	690 V
ating frequency rated value	50 60 Hz
ational current rated value	32 A
ational current	
at AC-3 at 400 V rated value	32 A
ational current	

• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
operating frequency	
• at AC-3 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	
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	25 kA
at AC at 400 V rated value	25 kA
at AC at 500 V rated value at AC at 500 V rated value	10 kA
at AC at 500 V rated value at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (lcs) at AC	1101
• at 240 V rated value	10 kA
at 400 V rated value	10 kA
at 400 V rated value at 500 V rated value	5 kA
	2 kA
at 690 V rated value	
response value current of instantaneous short-circuit trip unit	400 A
Short-circuit protection	V.
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	
● at 400 V	gG 63 A
● at 500 V	gG 63 A
● at 690 V	gG 63 A
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
required spacing	
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
— upwards — at the side	9 mm
	3 111111
• for live parts at 500 V	20 mm
— downwards	30 mm
— upwards	30 mm
at the side	0 ma ma
— at the side• for grounded parts at 690 V	9 mm

— 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 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
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
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

Test Certificates





Confirmation

<u>KC</u>



Type Test Certificates/Test Report

Test Certificates

Marine / Shipping

Special Test Certificate



Miscellaneous









Marine / Shipping

other

Confirmation



Confirmation

Railway

EPD Typ II/III (with life cylce assessment)

Environment

urther information

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

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

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=3RV2021-4EA10-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4EA10-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA10-0BA0

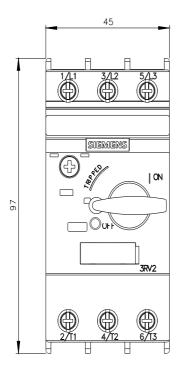
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4EA10-0BA0&lang=en

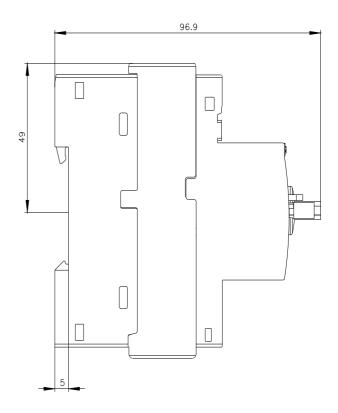
Characteristic: Tripping characteristics, I2t, Let-through current

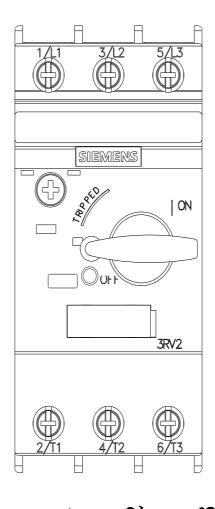
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA10-0BA0/char

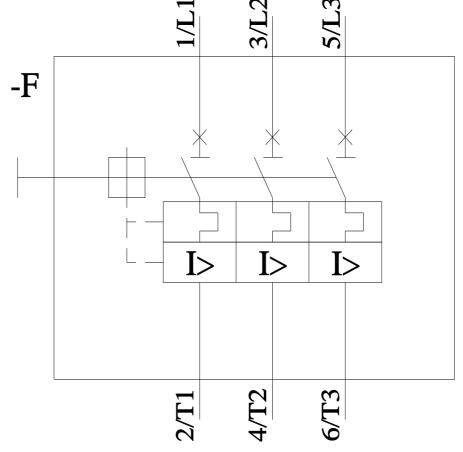
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=\$ -3RV2021-4EA10-0BA0&objecttype=14&gridview=view1









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