SIEMENS

Data sheet

3RV2021-4EA10-0DA0



Circuit breaker size S0 for system protection without phase failure protection A-release 27...32 A N-release 400 A screw terminal Standard switching capacity

4/12 6/13	
product brand name	SIRIUS
product designation	Circuit breaker
design of the product	for system protection
product type designation	3RV2
General technical data	
size of the circuit-breaker	SO
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 	13.25 W
 at AC in hot operating state per pole 	4.4 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 Sinus
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
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	27 32 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	32 A
operational current	
• at AC-3 at 400 V rated value	32 A
• at AC-3e at 400 V rated value	32 A

operating power	
• 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
• at AC-3e	
— 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
• 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	
ground fault detection	No
phase failure detection	No
trip class	CLASS 10
design of the overload release	thermal
maximum short-circuit current breaking capacity (Icu)	100 14
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 at AC at 690 V rated value 	10 kA 4 kA
operating short-circuit current breaking capacity (Ics) at AC	4 KA
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	400 A
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	-0.02.4
• at 400 V	gG 63 A
● at 500 V ● at 690 V	gG 63 A
Installation/ mounting/ dimensions	gG 63 A
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
— 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
		50 mm
— upwards		
— 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	n current	Top and bottom
circuit	-	
type of connectable conductor cross-sections	5	
for main contacts		
— solid or stranded		2x (1 2.5 mm ²), 2x (2.5 10 mm ²)
 finely stranded with core end process 	sing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
tightening torque		
 for main contacts with screw-type terminal 	ls	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		
B10 value		
	920	5 000
B10 value	920	5 000
B10 value • with high demand rate according to SN 31		5 000 50 %
B10 value • with high demand rate according to SN 31 proportion of dangerous failures	920	
B10 value • with high demand rate according to SN 31 proportion of dangerous failures • with low demand rate according to SN 319	920	50 %
B10 value • with high demand rate according to SN 31 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 319	920 920	50 %
B10 value • with high demand rate according to SN 311 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 311 failure rate [FIT] • with low demand rate according to SN 319	920 920 920	50 % 50 %
B10 value • with high demand rate according to SN 31 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 31 failure rate [FIT]	920 920 920	50 % 50 % 50 FIT
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B10 value • with high demand rate according to SN 311 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 311 failure rate [FIT] • with low demand rate according to SN 319 T1 value for proof test interval or service life according to SN 319 T1 value for proof test interval or service life according to I protection class IP on the front according to I touch protection on the front according to IEC	920 920 920 920 ording to IEC IEC 60529	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front
B10 value • with high demand rate according to SN 311 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 319 • with high demand rate according to SN 311 failure rate [FIT] • with low demand rate according to SN 319 T1 value for proof test interval or service life according to SN 319 protection class IP on the front according to IEC display version for switching status Certificates/ approvals	920 920 920 920 ording to IEC IEC 60529	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle
B10 value • with high demand rate according to SN 311 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 311 failure rate [FIT] • with low demand rate according to SN 319 T1 value for proof test interval or service life according to SN 319 T1 value for proof test interval or service life according to I protection class IP on the front according to IEC display version for switching status	920 920 920 920 ording to IEC IEC 60529	50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle Declaration of Conformity
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B10 value • with high demand rate according to SN 311 proportion of dangerous failures • with low demand rate according to SN 319 • with high demand rate according to SN 311 failure rate [FIT] • with low demand rate according to SN 319 T1 value for proof test interval or service life according to II value for proof test interval or service life according to II touch protection on the front according to IEC display version for switching status Certificates/ approvals General Product Approval Confirmation Test Certificates	920 920 020 000 ording to IEC IEC 60529 C 60529 KC	50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle Declaration of Conformity EFFE EG-Konf. UK
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Confirmation

Vibration and Shock



Further information



Confirmation



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=3RV2021-4EA10-0DA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4EA10-0DA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA10-0DA0

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

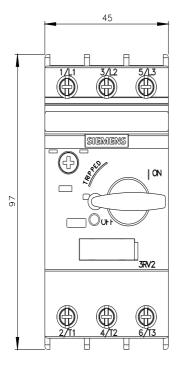
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4EA10-0DA0&lang=en

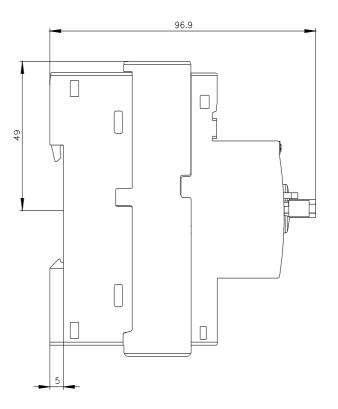
Characteristic: Tripping characteristics, I²t, Let-through current

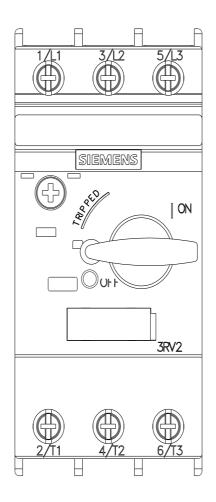
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA10-0DA0/char

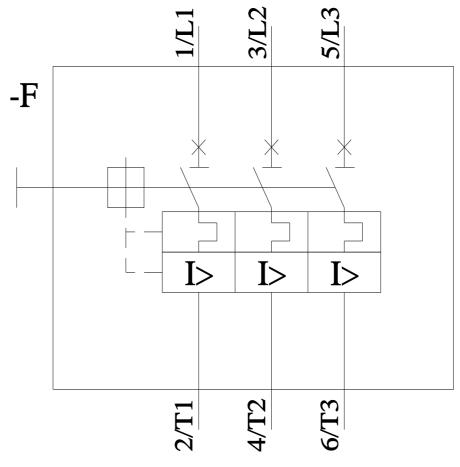
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4EA10-0DA0&objecttype=14&gridview=view1









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