SIEMENS

Data sheet

3RV2021-4AA10-0DA0



Circuit breaker size S0 for system protection without phase failure protection A-release 10...16 A N-release 208 A screw terminal Standard switching capacity

product brand name StRIUS product brand name StRIUS design of the product for system protection product type designation 3RV2 general technical data		
design of the product for system protection growtict type designation 3RV2 General technical data 50 size of the circuit-breaker S0 size of the circuit-breaker S0 power loss (W) for rated value of the current 9.25 W • at AC in hot operating state 9.25 W • at AC in hot operating state per pole 3.1 W insulation voltage with degree of pollution 3 at AC rated 600 V walue 600 V surge voltage resistance rated value 6 kV maximum permissible voltage for safe Isolation in networks with grounded star point 400 V • between main and auxillary circuit 400 V • between main and auxillary circuit 400 V • of the main contacts typical 100 000 • of auxiliary contacts typical 100 000 • of auxiliary contacts typical 100 000 • of auxiliary on tells (SWItching cycles) typical 100 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 100/01/2009 Ambient temperature -400 °C • during storage -50 +60 °C • during transport	product brand name	SIRIUS
product type designation 3RV2 General technical data size of contactor can be combined company-specific S0 size of contactor can be combined company-specific S0, S0 product extension auxiliary switch Yes power loss [W] for rated value of the current e at AC in hot operating state 9.25 W e at AC in hot operating state 9.25 W at AC in hot operating state 9.25 W surge voltage resistance rated value 68 V esurge voltage resistance rated value 68 V maximum permissible voltage for safe isolation in networks with grounded star point 400 V ebetween main and auxiliary circuit 400 V • between main and auxiliary circuit 400 V ebetween main and auxiliary circuit 400 V • between main and auxiliary circuit 400 V ebetween main and auxiliary circuit 400 V • between main and auxiliary circuit 400 V since according to IEC 60068-2:27 25g / 11 ms Sinus mechanical service life (switching cycles) 100 000 of auxiliary contacts typical 100 000 • of auxiliary contacts typical 100 000 100 000 editing appendices 100 00 reference code accord		
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temperature compensation -20 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.63 1 A operating voltage Image: Comparison of the current of the	 during storage 	-50 +80 °C
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Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.63 1 A operating voltage 0.63 1 A	temperature compensation	-20 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current-dependent overload release 0.63 1 A operating voltage	relative humidity during operation	10 95 %
adjustable current response value current of the current-dependent overload release 0.63 1 A operating voltage 0.63 1 A	Main circuit	
current-dependent overload release operating voltage	number of poles for main current circuit	3
		0.63 1 A
rated value 690 V	operating voltage	
	rated value	690 V
• rated value 20 690 V	rated value	20 690 V

 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	16 A
operational current	
at AC-3 at 400 V rated value	16 A
operating power	
• at AC-3	
— at 230 V rated value	4 kW
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 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	No
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (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
breaking capacity maximum short-circuit current (lcu)	
 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
response value current of instantaneous short-circuit trip unit	208 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	
• at 400 V	gG 63 A
● at 500 V	gG 50 A
● at 690 V	gG 40 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
height	97 mm
width	45 mm
depth	97 mm
required spacing	
 for grounded parts at 400 V 	20 mm
— 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
	Vilin

a for grounded parts at EOO V	
 for grounded parts at 500 V — downwards 	30 mm
	30 mm
— upwards — at the side	9 mm
	91111
 for live parts at 500 V — downwards 	20
	30 mm 30 mm
— upwards — at the side	9 mm
	9 1111
 for grounded parts at 690 V — downwards 	50 mm
	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— at the side — forwards	0 mm
 for live parts at 690 V 	0 mm
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	0 mm
	Νο
product component removable terminal for auxiliary and control circuit	NO
type of electrical connection	_
for main current circuit	screw-type terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
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
Safety related data	
B10 value	
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
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	
General Product Approval	Declaration of Conformity
	Declaration of comonity
Confirmation KC	ERE CE-Konf. UK Declaration of Conformity
Test Certificates Marine / Sh	ipping



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=3RV2021-4AA10-0DA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4AA10-0DA0

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

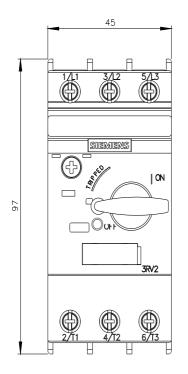
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4AA10-0DA0

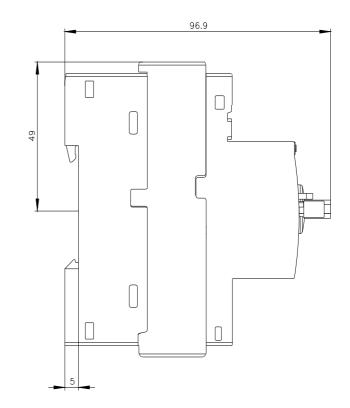
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4AA10-0DA0&lang=en

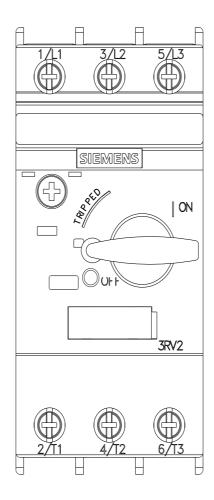
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4AA10-0DA0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4AA10-0DA0&objecttype=14&gridview=view1

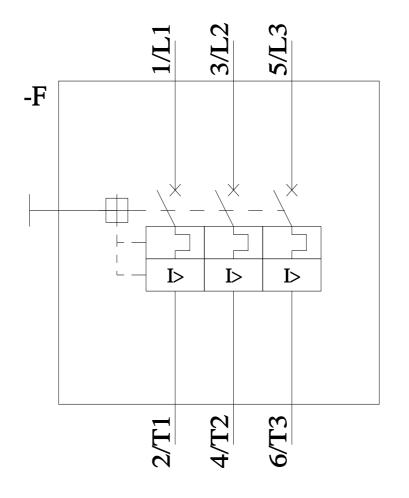






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