3RV2021-4BA10-0DA0

Data sheet



Circuit breaker size S0 for system protection without phase failure protection A-release 13...20 A N-release 260 A screw terminal Standard switching capacity

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	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	
maximum permissible voltage for safe isolation in networks with grounded star point		
 between main and auxiliary circuit 	400 V	
between main and auxiliary circuit	400 V	
shock resistance acc. to IEC 60068-2-27	25g / 11 ms Sinus	
mechanical service life (switching cycles)		
 of the main contacts typical 	100 000	
of auxiliary contacts typical	100 000	
electrical endurance (switching cycles) typical	100 000	
reference code acc. to IEC 81346-2	Q	
Substance Prohibitance (Date)	01.10.2009	
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	
temperature compensation	-20 +60 °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	0.65 1 A	
operating voltage		
rated value	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	20 A
operational current at AC-3 at 400 V rated value	20 A
operating power at AC-3	
at 230 V rated value	5.5 kW
at 400 V rated value	7.5 kW
at 500 V rated value	11 kW
at 690 V rated value	15 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 (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
response value current of instantaneous short-circuit trip unit	260 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 50 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	VI IIIII
• 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
— upwards — at the side	9 mm
for grounded parts at 500 V	V IIIIII
downwards	30 mm
— upwards	30 mm
— upwaius	OU IIIII

<u>Confirmation</u> <u>KC</u>	FHI CE UK Declaration of Conformity
General Product Approval	Declaration of Conformity
Certificates/ approvals	
display version for switching status	Handle
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
protection class IP on the front acc. to IEC 60529	IP20
T1 value for proof test interval or service life acc. to IEC 61508	10 y
with low demand rate acc. to SN 31920	50 FIT
failure rate [FIT]	
• with high demand rate acc. to SN 31920	50 %
with low demand rate acc. to SN 31920	50 %
proportion of dangerous failures	
• with high demand rate acc. to SN 31920	5 000
B10 value	
Safety related data	
for main contacts	M4
design of the thread of the connection screw	
size of the screwdriver tip	Pozidriv size 2
design of screwdriver shaft	Diameter 5 to 6 mm
for main contacts with screw-type terminals	2 2.5 N·m
tightening torque	
 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• for main contacts	
type of connectable conductor cross-sections	
arrangement of electrical connectors for main current circuit	Top and bottom
for main current circuit	screw-type terminals
type of electrical connection	
product component removable terminal for auxiliary and control circuit	No
Connections/ Terminals	
— forwards	0 mm
— at the side	30 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
• for live parts at 690 V	
— forwards	0 mm
— at the side	30 mm
— backwards	0 mm
— upwards	50 mm
— downwards	50 mm
• for grounded parts at 690 V	
— at the side	9 mm
— upwards	30 mm
— downwards	30 mm
for live parts at 500 V	9 111111
— at the side	9 mm







Test Certificates	Marine / Shipping	other
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Confirmation

other

Railway



Confirmation

Vibration and Shock

Further information

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=3RV2021-4BA10-0DA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4BA10-0DA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10-0DA0

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

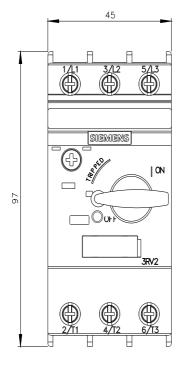
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4BA10-0DA0&lang=en

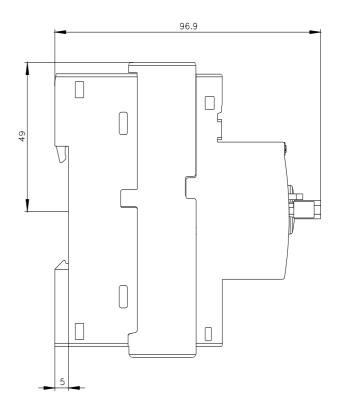
Characteristic: Tripping characteristics, I2t, Let-through current

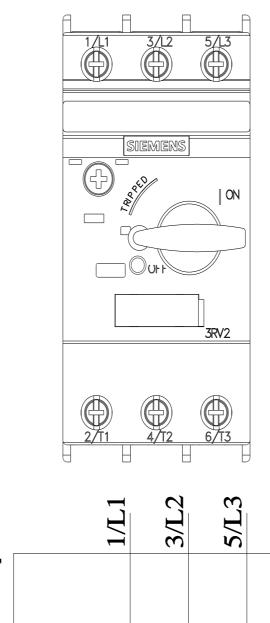
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4BA10-0DA0/char

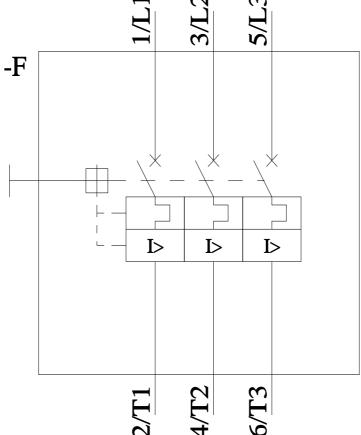
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4BA10-0DA0&objecttype=14&gridview=view1









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