SIEMENS

Data sheet 3RV2021-0DA10



Circuit breaker size S0 for motor protection, Class 10 A-release 0.22...0.32 A Short-circuit release 4.2 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	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	5.5 W
at AC in hot operating state per pole	1.8 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
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	0.22 0.32 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	0.32 A
operational current	

operating power		
- at AC-3	at AC-3e at 400 V rated value	0.32 A
	— at 230 V rated value	0 kW
	— at 400 V rated value	0.1 kW
	— at 500 V rated value	0.1 kW
at 229 V reted value	— at 690 V rated value	0.1 kW
	• at AC-3e	
— at 500 V rated value	— at 230 V rated value	0 kW
	— at 400 V rated value	0.1 kW
operating frequency	— at 500 V rated value	0.1 kW
at A CA-3 maximum at A CA-3e maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 product function e.ground fault detection No product function e.ground fault detection yes class 0 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 240 V rated value e.at AC at 350 V rated value operating short-circuit current breaking capacity (ics) at AC e.at 240 V rated value 100 kA e.at AC at 350 V rated value 100 kA e.at AC at 360 V rated value 100 kA e.at 40 C rated value 100 kA e.at 350 V rated value 100 kA e.	— at 690 V rated value	0.1 kW
a AC-3e maximum Auxillary circuit number of NC contacts for auxillary contacts product function - ground flaut detection - ground flaut detection - ground flaut detection - yes 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 - at AC at 500 V rated value - at AC at 500 V rated value - at AC at 500 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 600 V rated value - at	operating frequency	
Auxiliary circuit number of NC contacts for auxiliary contacts 10 number of NC contacts for auxiliary contacts 10 number of CC contacts for auxiliary contacts 10 product function 10 eground fault detection 10 eground fault detection 10 ephase failure detection ephase	• 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 NO contacts for auxiliary contacts o number of CO contacts for auxiliary contacts o product function	 at AC-3e maximum 	15 1/h
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 Yes class CLASS 10 design of the overload release themat maximum short-circuit current breaking capacity (tcu) • at AC at 240 V rated value 100 kA • at AC at 400 V rated value 100 kA • at AC at 500 V rated value 100 kA • at AC at 400 V rated value 100 kA • at 240 V rated value 100 kA • at 240 V rated value 100 kA • at 2500 V rated value 100 kA • at 240 V rated value 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 600 V rated value 100	Auxiliary circuit	
number of CO contacts for auxiliary contacts Protective and monitoring functions product function • ground fault detection • ground fault detection Yes trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 550 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 480 V rated value • at 600 V	number of NC contacts for auxiliary contacts	0
product function • ground fault detection • product function • phase failure detection Trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (tcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 600 V rated value • 0.32 A Short-circuit protection product function 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 width • depth • for grounded parts at 400 V • downwards • upwards • at the side • gn mm • for live parts at 400 V • downwards • upwards • 30 mm • upwards • upwards • 30 mm • upwards • 30 mm	number of NO contacts for auxiliary contacts	0
product function ground fault detection yes trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 240 V rated value 100 kA at AC at 690 V rated value 100 kA at AC at 690 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 AC at 690 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 240 V rated value 100 kA at 490 V rated value 100 kA at 490 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA so the function short-circuit protection 4 the function short circuit protection yes at 690 V rated value 0.32 A Short-circuit protection yes design of the short-circuit trip magnetic installation/ mounting/ dimensions mounting position apy fastening method 45 mm depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — at the side 9 mm • for live parts at 400 V — downwards — at the side 9 mm • for live parts at 400 V — downwards — upwards	number of CO contacts for auxiliary contacts	0
product function ground fault detection yes trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 240 V rated value 100 kA at AC at 690 V rated value 100 kA at AC at 690 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 AC at 690 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA at 240 V rated value 100 kA at 490 V rated value 100 kA at 490 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA so the function short-circuit protection 4 the function short circuit protection yes at 690 V rated value 0.32 A Short-circuit protection yes design of the short-circuit trip magnetic installation/ mounting/ dimensions mounting position apy fastening method 45 mm depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — at the side 9 mm • for live parts at 400 V — downwards — at the side 9 mm • for live parts at 400 V — downwards — upwards	Protective and monitoring functions	
• ground fault detection • phase failure detection • phase failure detection • phase failure detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at IAC at 240 V rated value • at IAC at 400 V rated value • at IAC at 500 V rated value • at IAC at IAC at IAC at IAC • at IAC at IAC at IAC at IAC • at IAC • at IAC at IAC • at		
trip class CLASS 10 design of the overload release thermal maximum short-circuit current breaking capacity (icu) • at AC at 240 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 40 V rated value 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA response value current of instantaneous short-circuit trip unit 100 kA response value current of instantaneous short-circuit trip unit 100 kA response value current of instantaneous short-circuit trip unit 100 kA response value current of instantaneous short-circuit trip unit 100 kA response value current of instantaneous short-circuit trip unit 100 kA response value current of instantaneous short-circuit trip unit 100 kA • at 600 V rated value 0.32 A • at 600 V rated value	•	No
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maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 680 V rated value • at AC at 680 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value	trip class	CLASS 10
maximum short-circuit current breaking capacity (icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 680 V rated value • at AC at 680 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value	<u> </u>	thermal
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operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA response value current of instantaneous short-circuit trip unit UUCSA ratings full-load current (FLA) for 3-phase AC motor 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA	at AC at 500 V rated value	100 kA
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 — upwards — at the side 9 mm • for live parts at 400 V — downwards — upwards 30 mm 30 mm 		20
 — at the side ● for live parts at 400 V — downwards — upwards 30 mm 30 mm 		
 for live parts at 400 V — downwards — upwards 30 mm 30 mm 	•	
downwardsupwards30 mm30 mm		9 mm
— upwards 30 mm		
— at the side 9 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	3 11111	
— downwards	30 mm	
	30 mm	
— upwards		
— at the side	9 mm	
for grounded parts at 690 V	50	
— 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	
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		
B10 value		
	5,000	
with high demand rate according to SN 31920	5 000	
proportion of dangerous failures	50.04	
with low demand rate according to SN 31920 with high demand rate according to SN 34900 With high demand rate according to SN 34000 With high demand rate according to SN 340000 With high demand rate according to SN 340000 With high deman	50 %	
with high demand rate according to SN 31920	50 %	
failure rate [FIT]		
with low demand rate according to SN 31920	50 FIT	
T1 value for proof test interval or service life according to IEC 61508	10 a	
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		For use in hazard- ous locations
Confirmation UL	EHC EHC	(Ex)

Test Certificates Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other











Confirmation

other

Railway



Vibration and Shock

Confirmation

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=3RV2021-0DA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0DA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0DA10

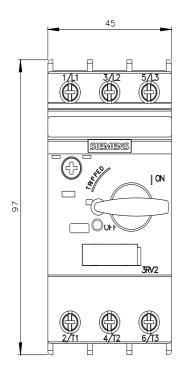
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

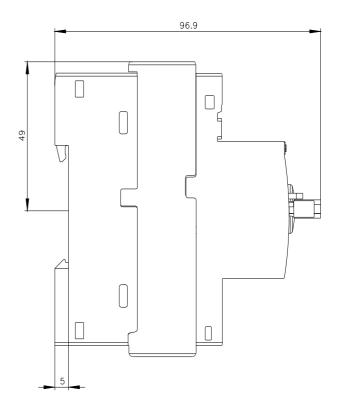
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-0DA10&lang=en

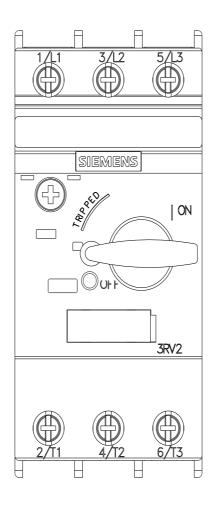
Characteristic: Tripping characteristics, I2t, Let-through current

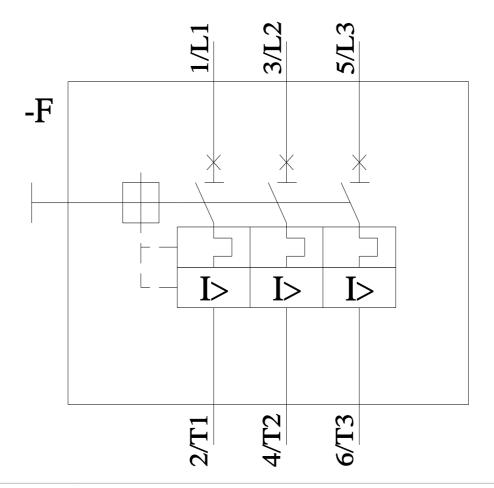
https://support.industry.siemens.com/cs/ww/en/ps/3RV202

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0DA10&objecttype=14&gridview=view1









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