SIEMENS

3RV2021-0JA10 **Data sheet**



Circuit breaker size S0 for motor protection, CLASS 10 A-release 0.7...1 A N-release 13 A screw terminal Standard switching capacity

1.41	OID!! IO
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 	7.25 W
 at AC in hot operating state per pole 	2.4 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
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	0.7 1 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	1 A
-	

operations current		
### AC-3e at 400 V rated value	operational current	
oparating power		
- at 230 V rated value		1 A
		0.3 kW
at 500 V rated value at 300 V rated value at 200 V rated value at 200 V rated value at 200 V rated value at 400 V rated value at 500 V rated value at 600 V rated value at		
earl ArC-3e		
— at 230 V rated value — at 800 V rated value — os 80 V rated value — os 90 V rated value — os 90 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 14 C-3 to 7 ex 120 V rated value — os 15 00		0.0 KVV
		0.2 kW
— at 500 V rated value — at 600 V rated val		
— at 800 V rated value 0.6 kW		
operating frequency		
e at AC-3 maximum e at AC-3e maximum 15 1/h Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts number of CO contacts number of CO contacts number of CO contacts numbe		
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## Company of the short-circuit trip ## Counting method ## Counting me	response value current of instantaneous short-circuit trip	13 A
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width depth 97 mm required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards 30 mm	-	
depth required spacing ● with side-by-side mounting at the side ● for grounded parts at 400 V — downwards — upwards 97 mm 0 mm 30 mm 30 mm	height	97 mm
required spacing • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards 30 mm 30 mm	width	45 mm
 with side-by-side mounting at the side for grounded parts at 400 V downwards upwards 30 mm 30 mm 	depth	97 mm
 for grounded parts at 400 V — downwards — upwards 30 mm 30 mm 	required spacing	
downwardsupwards30 mm30 mm		0 mm
— upwards 30 mm		
— at the side 9 mm		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
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
nnections/ Terminals	

Connections/ Terminals

type of electrical connection

• for main current circuit

arrangement of electrical connectors for main current circuit

type of connectable conductor cross-sections

for main contacts

- solid or stranded

- finely stranded with core end processing

• at AWG cables for main contacts

tightening torque

• for main contacts with screw-type terminals

design of screwdriver shaft size of the screwdriver tip

design of the thread of the connection screw

• for main contacts

screw-type terminals

Top and bottom

2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)

2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²

2x (16 ... 12), 2x (14 ... 8)

2 ... 2.5 N·m

Diameter 5 to 6 mm Pozidriv size 2

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

• with high demand rate according to SN 31920

failure rate [FIT]

• with low demand rate according to SN 31920

T1 value for proof test interval or service life according to

IEC 61508

protection class IP on the front according to IEC

60529

touch protection on the front according to IEC 60529

display version for switching status

50 %

50 %

50 FIT 10 a

IP20

finger-safe, for vertical contact from the front

Handle

Certificates/ approvals

General Product Approval

For use in hazardous locations

Confirmation















Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

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=3RV2021-0JA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-0JA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0JA10

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

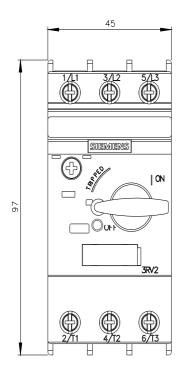
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-0JA10\&lang=en}}$

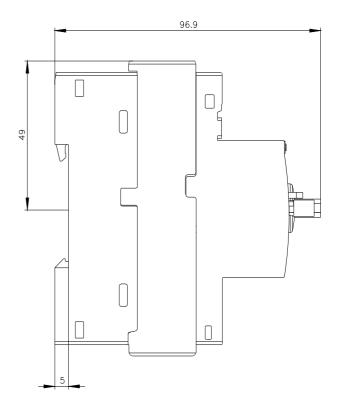
Characteristic: Tripping characteristics, I2t, Let-through current

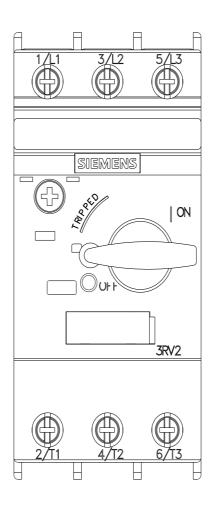
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0JA10/char

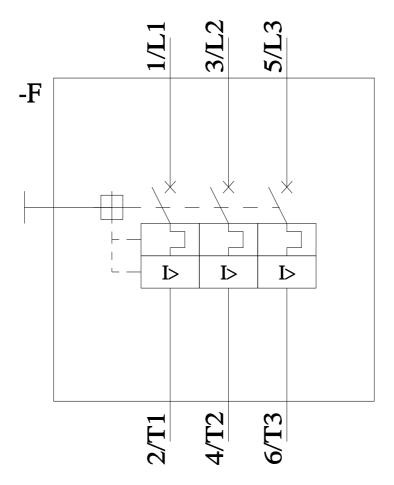
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0JA10&objecttype=14&gridview=view1









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