## SIEMENS

## Data sheet

## 3RV2021-1CA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 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	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	
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 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	
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
<ul> <li>between main and auxiliary circuit</li> </ul>	400 V
shock resistance acc. to IEC 60068-2-27	25g / 11 ms
mechanical service life (switching cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000
electrical endurance (switching 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 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	
<ul> <li>during operation</li> </ul>	-20 +60 °C
<ul> <li>during storage</li> </ul>	-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	1.8 2.5 A

current dependent overlead release	
current-dependent overload release	
operating voltage	C00.)/
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	2.5 A
operational current at AC-3 at 400 V rated value	2.5 A
operating power at AC-3	0.4114
at 230 V rated value	0.4 kW
at 400 V rated value	0.8 kW
at 500 V rated value	1.1 kW
at 690 V rated value	1.5 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	
<ul> <li>ground fault detection</li> </ul>	No
<ul> <li>phase failure detection</li> </ul>	Yes
trip class	CLASS 10
design of the overload release	thermal
breaking capacity operating short-circuit current (Ics) at AC	
<ul> <li>at 240 V rated value</li> </ul>	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
<ul> <li>at 500 V rated value</li> </ul>	100 kA
at 690 V rated value	10 kA
breaking capacity maximum short-circuit current (lcu)	
<ul> <li>at AC at 240 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 400 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA
<ul> <li>at AC at 690 V rated value</li> </ul>	10 kA
response value current of instantaneous short-circuit trip unit	33 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
<ul> <li>at 480 V rated value</li> </ul>	2.5 A
at 600 V rated value	2.5 A
yielded mechanical performance [hp]	
<ul> <li>for single-phase AC motor</li> </ul>	
— at 230 V rated value	0.17 hp
<ul> <li>for 3-phase AC motor</li> </ul>	
— at 200/208 V rated value	0.5 hp
— at 220/230 V rated value	0.5 hp
— at 460/480 V rated value	1 hp
— at 575/600 V rated value	1.5 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
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	

<ul> <li>for grounded parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 400 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 500 V</li> </ul>	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for live parts at 500 V</li> </ul>	
– downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	0.1111
— downwards	50 mm
	50 mm
— upwards — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
<ul> <li>for live parts at 690 V</li> </ul>	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
	No
product component removable terminal for auxiliary and control circuit	INU
and control circuit	screw-type terminals
and control circuit type of electrical connection	
and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	screw-type terminals
and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current	screw-type terminals
and control circuit type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	screw-type terminals Top and bottom
and control circuit 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	screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
and control circuit         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	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
and control circuit         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	screw-type terminals Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
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and control circuit         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	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
and control circuit         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	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm
and control circuit         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	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m
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and control circuit         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         B10 value	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv 2 M4
and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv 2
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and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920	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 2         M4         5 000         50 %
and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv 2 M4 5 000
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and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920         failure rate [FIT]         • with low demand rate acc. to SN 31920	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv 2 M4 5 000 50 %
and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920         failure rate [FIT]         • with low demand rate acc. to SN 31920         T1 value for proof test interval or service life acc. to IEC 61508	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> 2x (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv 2 M4 5 000 50 % 50 % 50 %
and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920         failure rate [FIT]         • with low demand rate acc. to SN 31920         T1 value for proof test interval or service life acc. to IEC 61508         protection class IP on the front acc. to IEC 60529	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 (1 6 12), 2x (14 8)         2 2.5 N·m         Diameter 5 to 6 mm         Pozidriv 2         M4         5 000         50 %         50 %         50 FIT         10 y         IP20
and control circuit         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 shaft         size of the screwdriver tip         design of the thread of the connection screw         • for main contacts         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920         failure rate [FIT]         • with low demand rate acc. to SN 31920         T1 value for proof test interval or service life acc. to IEC 61508         protection class IP on the front acc. to IEC 60529         touch protection on the front acc. to IEC 60529	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 2         M4         5 000         50 %         50 %         50 %         50 FIT         10 y         IP20         finger-safe, for vertical contact from the front
and control circuit         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         Safety related data         B10 value         • with high demand rate acc. to SN 31920         proportion of dangerous failures         • with low demand rate acc. to SN 31920         failure rate [FIT]         • with low demand rate acc. to SN 31920         T1 value for proof test interval or service life acc. to IEC 61508         protection class IP on the front acc. to IEC 60529	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 (1 6 12), 2x (14 8)         2 2.5 N·m         Diameter 5 to 6 mm         Pozidriv 2         M4         5 000         50 %         50 %         50 FIT         10 y         IP20

General Product Ap	oproval					
(Sfr G		<u>Confirmation</u>		KC	EHC	
For use in hazardo	us locations	Declaration of Con	formity	Test Certificates		
IECEX	K ATEX	<u>UK Declaration of</u> <u>Conformity</u>	CE EG-Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
Marine / Shipping						
ABS	BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	
Marine / Shipping	other		Railway			
RMRS RMRS	<u>Confirmation</u>		<u>Vibration and Shock</u>	<u>Confirmation</u>		
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=3RV2021-1CA10						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1CA10						

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1CA10

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

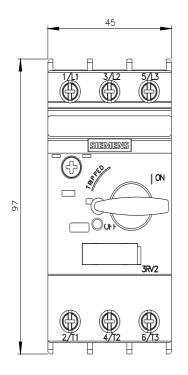
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-1CA10&lang=en

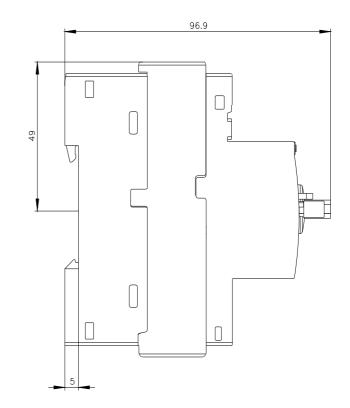
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

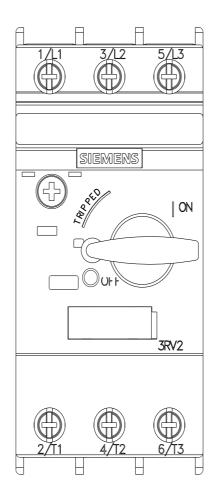
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1CA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1CA10&objecttype=14&gridview=view1

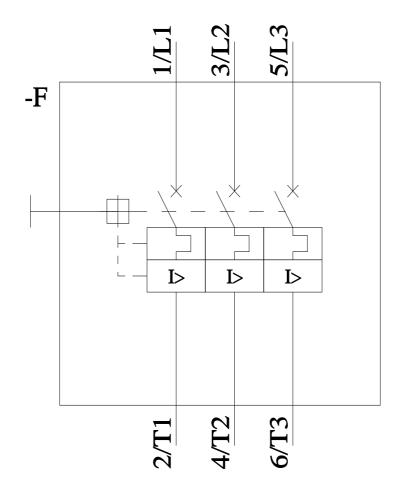






1/26/2022

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11/30/2021 🖸