## SIEMENS

## Data sheet

## 3RV2021-1DA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 2.2...3.2 A N release 42 A screw terminal Standard switching capacity

4/12 6/15	
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
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
<ul> <li>of the main contacts typical</li> </ul>	100 000
<ul> <li>of auxiliary contacts typical</li> </ul>	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
SVHC substance name	Blei - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	2.2 3.2 A
operating voltage	
rated value	20 690 V
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	3.2 A

operational current	
<ul> <li>at AC-3 at 400 V rated value</li> </ul>	3.2 A
at AC-3e at 400 V rated value	3.2 A
operating power	
• at AC-3	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
• at AC-3e	
— at 230 V rated value	0.6 kW
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
operating frequency	
• at AC-3 maximum	15 1/h
• at AC-3e 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	Yes
trip class	CLASS 10
•	thermal
design of the overload release	liema
maximum short-circuit current breaking capacity (Icu)	100.14
• 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 690 V rated value	10 kA
operating short-circuit current breaking capacity (Ics) at AC	
at 240 V rated value	100 kA
<ul> <li>at 400 V rated value</li> </ul>	100 kA
• at 500 V rated value	100 kA
at 690 V rated value	10 kA
response value current of instantaneous short-circuit trip unit	42 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	3.2 A
• at 600 V rated value	3.2 A
at 600 V rated value yielded mechanical performance [hp]	3.2 A
	3.2 A
yielded mechanical performance [hp]	3.2 A 0.1 hp
yielded mechanical performance [hp] • for single-phase AC motor	
<ul> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> </ul>	0.1 hp
<ul> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> </ul>	0.1 hp
<ul> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor</li> </ul>	0.1 hp 0.25 hp
<ul> <li>yielded mechanical performance [hp]</li> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> </ul> </li> </ul>	0.1 hp 0.25 hp 0.5 hp 0.75 hp
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value	0.1 hp 0.25 hp 0.5 hp 0.75 hp
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value Short-circuit protection	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value <b>Short-circuit protection</b> product function short circuit protection	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp Yes
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value <b>Short-circuit protection</b> product function short circuit protection design of the short-circuit trip	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp Yes magnetic
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions mounting position	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp Yes magnetic
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position fastening method	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp 2 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position fastening method height	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp 2 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  — at 460/480 V rated value  — at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  Installation/ mounting/ dimensions  mounting position fastening method	0.1 hp 0.25 hp 0.5 hp 0.75 hp 2 hp 2 hp 2 hp Yes magnetic any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715

required spacing	
<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm
<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
• for live parts at 500 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
<ul> <li>for grounded parts at 690 V</li> </ul>	
- downwards	50 mm
— upwards	50 mm
— upwarus — backwards	0 mm
— at the side	30 mm
— forwards	0 mm
• for live parts at 690 V	50 mm
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Connections/ Terminals	
type of electrical connection	
type of electrical connection • for main current circuit	screw-type terminals
type of electrical connection	screw-type terminals Top and bottom
type of electrical connection • for main current circuit arrangement of electrical connectors for main current	
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li>	Top and bottom
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	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
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	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
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 • for AWG cables for main contacts	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²)
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 • for AWG cables for main contacts tightening torque	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)
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 • for AWG cables for main contacts tightening torque • for main contacts with 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
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 • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft	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
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 • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip	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
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 • for 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	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 size 2
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 • for 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	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
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 • for 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	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 size 2
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 • for 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 proportion of dangerous failures	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 size 2 M4
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft <ul> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw <ul> <li>for main contacts</li> </ul> </li> </ul> </li> <li>Safety related data <ul> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> </ul> </li>	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 size 2 M4 50 %
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft <ul> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data <ul> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> </ul> </li>	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 size 2 M4 50 %
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft <ul> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw <ul> <li>for main contacts</li> </ul> </li> </ul> </li> <li>Safety related data <ul> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> </ul> </li>	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 size 2 M4 50 %
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft <ul> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data <ul> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN</li> </ul> </li>	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 size 2 M4 50 %
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft <ul> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data <ul> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul> </li>	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         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %
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         • for 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         proportion of dangerous failures         • with low demand rate according to SN 31920         * with high demand rate according to SN 31920         B10 value with high demand rate according to SN 31920         IEC 61508	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         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> <li>proportion of dangerous failures <ul> <li>with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> </ul> </li>	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         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 00
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> <li>proportion of dangerous failures <ul> <li>with high demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>IEC 61508</li> <li>T1 value for proof test interval or service life according to</li>	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         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 00
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft</li> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw <ul> <li>for main contacts</li> </ul> </li> <li>Safety related data</li> <li>proportion of dangerous failures <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> </ul> </li> <li>B10 value with high demand rate according to SN 31920</li> <li>IEC 61508</li> <li>T1 value for proof test interval or service life according to IEC 61508</li>	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         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 00
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 • for 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 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 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 Electrical Safety	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         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 00         10 a
type of electrical connection <ul> <li>for main current circuit</li> </ul> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> </li> <li>tightening torque <ul> <li>for main contacts with screw-type terminals</li> </ul> </li> <li>design of screwdriver shaft <ul> <li>size of the screwdriver tip</li> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul> </li> <li>Safety related data <ul> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> </ul> </li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>IEC 61508</li> <li>T1 value for proof test interval or service life according to IEC 61508</li> <li>Electrical Safety <ul> <li>protection class IP on the front according to IEC 60529</li> </ul> </li>	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 size 2         M4         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 %         50 00         10 a         IP20
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 • for 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 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 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529	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 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         2x (1 2.5 mm²), 2x (14 8)         2 2.5 N·m         Diameter 5 to 6 mm         Pozidriv size 2         M4         50 %         50 %         50 %         50 FIT         5 000         10 a         IP20         finger-safe, for vertical contact from the front

General Product Appr	oval						
<u>Confirmation</u>	CE EG-Konf.	UK CA		(UL)	<u>KC</u>		
General Product Approval	For use in hazardou	s locations	Test Certificates		Marine / Shipping		
EHC	KEx ATEX	IECEX	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping					other		
BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	<u>Miscellaneous</u>		
other		Railway	Environment				
<u>Confirmation</u>	DE	<u>Confirmation</u>	EPD Typ II/III (with life cylce assessment)				
urther 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=3RV2021-1DA10 Cax online generator							
http://support.automatio			en&mlfb=3RV2021-1DA10	2			
Service&Support (Manuals Certificates Characteristics FAOs )							

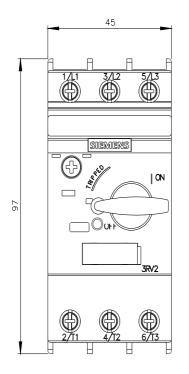
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1DA10

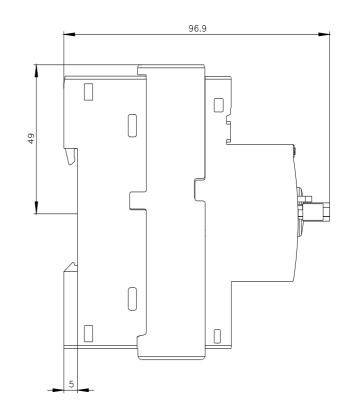
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-1DA10&lang=en

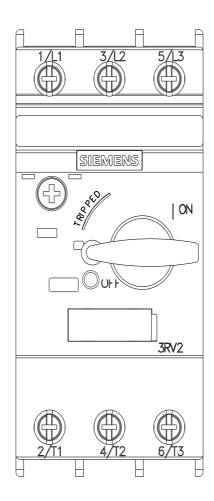
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

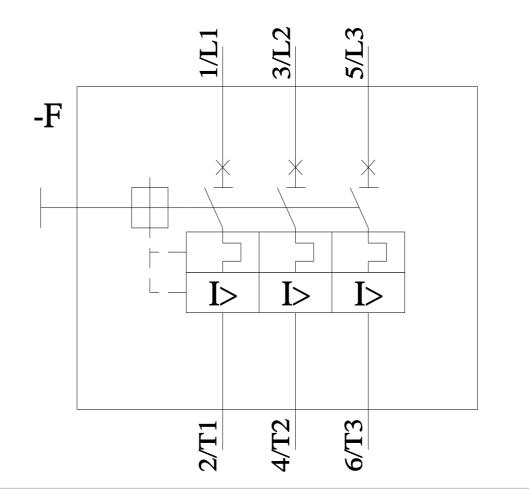
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1DA10/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1DA10&objecttype=14&gridview=view1









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