SIEMENS

Data sheet

3RV2021-1FA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 3.5...5 A N release 65 A screw terminal Standard switching capacity

4/11 4/12 6/13	
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	3.5 5 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	5 A
operational current	

• at AC-3 at 400 V rated value	5 A
at AC-3e at 400 V rated value	5 A
operating power	
• at AC-3	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 kW
• at AC-3e	
— at 230 V rated value	1.1 kW
— at 400 V rated value	1.5 kW
— at 500 V rated value	2.2 kW
— at 690 V rated value	4 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
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 400 V rated value	100 kA
at AC at 500 V rated value	100 kA
at AC at 690 V rated value	6 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
at 400 V rated value	100 kA
at 500 V rated value	100 kA
at 690 V rated value	4 KA
response value current of instantaneous short-circuit trip unit	65 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	5 A
at 600 V rated value	5 A
yielded mechanical performance [hp]	37
for single-phase AC motor	
at 110/120 V rated value	0.17 hp
— at 110/120 V fated value	0.5 hp
	0.0 Hp
for 3-phase AC motor at 200/208 V rated value	1 bp
- at 200/208 V rated value	1 hp
- at 220/230 V rated value	1 hp
- at 460/480 V rated value	3 hp
- at 575/600 V rated value	3 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
Installation/ mounting/ dimensions	
mounting position	
fastening method	any
	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
height	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm
height width	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm
	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm

 • with side-by-side mounting at the side • for grounds parts at 400 V - dynwards 0 mm - dynwards 0 mm - et the side 9 mm • for the parts at 400 V - donwards 30 mm - upwards 0 mm • for signal data at 500 V - donwards 0 mm • for signal data at 500 V - donwards 0 mm • for signal data at 500 V - upwards 0 mm • for signal data at 500 V - donwards 0 mm • for signal data at 500 V - donwards 0 mm • for signal data at 500 V - donwards 0 mm • for signal data at 500 V - donwards 0 mm • for signal data at 500 V - donwards 0 mm - forwards 0 formal candidate core of processing 2 x (1 25 mm²), 2x (25 10 mm²) - forwards at according to for 31202 <l< th=""><th></th><th></th><th></th></l<>			
- downwards 30 mm 4 m	 with side-by-side mounting at the side 	0 mm	
- upwards 30 mm 30	 for grounded parts at 400 V 		
	— downwards	30 mm	
• for live parts at 400 V and Gowmards 30 mm	— upwards	30 mm	
- downwards 30 mm - downwards 30 mm - or downwards 30 mm - or downwards 30 mm - upwards	— at the side	9 mm	
upwards30 mma the side9 mmdownwards30 mmdownwards30 mmupwards30 mma the side9 mmdownwards30 mma the side9 mmdownwards30 mmdownwards30 mmdownwards30 mmdownwards30 mmat the side9 mmdownwards50 mmdownwards<	 for live parts at 400 V 		
	— downwards	30 mm	
 for grounded parts at 500 V downards downards of the solid mm of the solid mm of the solid at 500 V of or two parts at 500 V of or grounded parts at 600 V of or two parts at 600 V of or two parts at 600 V of or two parts at 600 V of or main contacts of or two contacts of or main contacts of or main contacts of or	— upwards	30 mm	
downwards 90 mm downards 90 mm	— at the side	9 mm	
downwards 90 mm downards 90 mm	 for grounded parts at 500 V 		
- upwards 30 mm - at the side 9 mm - downwards 30 mm - upwards 30 mm - upwards 30 mm - upwards 50 mm - addwnwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 50 mm - upwards 50 mm - on main current cirutu		30 mm	
• for live parts at 500 V 30 mm - downards 30 mm - upwards 30 mm - at the side 9 mm • downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - abackwards 0 mm - at the side 30 mm - for wards 0 mm - forwards 50 mm - downwards 50 mm - upwards 0 mm - upwards 20 mm - upwards 20 mm - of main contacts scree-type terminals - for main contacts with cree of procesing	•		
- downwards30 mm- upwards30 mm- upwards30 mm- otomwards at 800 V50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- at the side0 mm- at the side50 mm- forwards50 mm- downwards50 mm- at the side50 mm- downwards50 mm- downards70 and bottom- forwards20 mm- forwards2x (1 25 mm²). 2x (25 10 mm²)- for main contacts2x (1 25 mm²). 2x (25 10 mm²)- for main contacts2x (1 25 mm²). 2x (25 10 mm²)- for walc collacts with screw-type terminals2 25 Nm- for walc collacts with screw-type terminals2 25 Nm- for walc collacts with screw-type terminals2 25 Nm- for walc collacts with screw-type terminals50 00- for walc collacts with screw-type terminals50 00- for w		0.1111	
upwards30 mm at the side9 mm at the side9 mm downwards50 mm upwards50 mm backwards0 mm backwards0 mm at the side30 mm at the side30 mm at the side50 mm forwards50 mm downwards50 mm downwards50 mm downwards50 mm downwards50 mm downwards50 mm downwards0 mm downwards2 mm		30 mm	
• for grounded parts at 800 V 50 mm - downwards 50 mm - upwards 50 mm - backwards 30 mm - at the side 30 mm - forwards 50 mm - forwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - downwards 50 mm - at the side 50 mm - otomactal 70 mm - otomactal 70 mm - for wards 0 mm - otomactable conductor cross-sections 10 ard bottom - for wards cables for main contacts 2x (1 2.5 mm ³) 2x (2.5 10 mm ³) - for ward cables for main contacts 2x (1 (1 2.5 mm ³) 2x (2.5 6 mm ³) 1x 10 mm ² - of main contacts 2x (1 (1 2.5 mm ³) 2x (2.5 10 mm ³) - for ward cables for main contacts 2x (1 (1 2.5 mm ³) 2x (2.5 10 mm ³) - for ward cables for main contact	•		
- downwards 50 mm - upwards 50 mm - backwards 50 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - forwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm onnectons/ Terminals 2 mannectons/ Terminals stransperent of electrical connectors for main current circuit Top and bottom ' for main contacts 2 x (1 25 mm ²), 2x (25 10 mm ²) - forwarin contacts 2 x (1 25 mm ²), 2x (25 5 mm ²), 1x 10 mm ² - for wain contacts 2 x (1 25 mm ²), 2x (25 5 mm ²), 1x 10 mm ² - for wain contacts with screw-type terminals 2 25 N ^m design of the thread of the connecton screw M4 of main contacts M4 thety relate		9 mm	
upwards50 mm backwards0 mm at the side30 mm forwards0 mm forwards50 mm downwards50 mm upwards50 mm upwards50 mm upwards50 mm at the side30 mm forwards0 mm at the side0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm formain current circuitscrew-type terminals for main current circuitscrew-type terminals finely stranded with core end processing2x (1 25 mm²), 2x (25 10 mm²) finely stranded with core end processing2x (1 25 mm²), 2x (25 10 mm²) for wain contacts2x (1 25 mm²), 2x (25 10 mm²) for wain contacts2x (1 25 mm²), 2x (25 10 mm²) for wain contacts with screw-type terminals2 25 Nm for waits according to SN 319205000 for main contactsM4 for main contacts5000 for waits data50 % with high demand rate according to SN 3192050 % with high demand rate according to SN 3192050 % with high demand rate according to SN 3192050 % with high demand rate according to IEC 6052910 a for toest interval or service life according to IEC 6052910 a for toest interval or service life according to IEC 6052910 a <td>-</td> <td>50 mm</td> <td></td>	-	50 mm	
at the side30 mm forwards0 mm- forwards50 mm downwards50 mm upwards50 mm upwards0 mm at the side30 mm forwards0 mm formain current circuitscrew-type terminals formain contacts2 x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded2 x. (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² for main contacts2 2.5 mm², 2x (2.5 6 mm²), 1x 10 mm² for main contacts2 2.5 mm², 2x (2.5 6 mm²), 1x 10 mm² for main contacts2 2.5 mm² for main contactsM4 for main contactsM4 for main contacts5 000 with hijh demand rate according to SN 3192050 % with hijh demand rate according to SN 3192050 % with hijh demand rate according to SN 3192050 % with hijh demand rate according to SN 3192050 % with hijh demand rate according to SN 3192050 % with hijh demand rat			
forwards 0 mm • for live parts at 600 V 50 mm downwards 50 mm upwards 50 mm backwards 0 mm backwards 0 mm at the side 00 mm forwards 0 mm forwards 0 mm forwards 0 mm forwards 0 mm onnections/ Terminals screw-type terminals type of electrical connectors for main current circuit Top and bottom arrangement of electrical connectors for main current circuit Top and bottom forwards 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) forwards 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) finely stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) finely stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) finely stranded with core end processing 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) forwards 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) forwards 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) forwards 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) forwards 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) forwards 2x 2.5 N m design of the thre			
• for live parts at 690 V 50 mm - downwards 50 mm - backwards 0 mm - backwards 0 mm - at the side 30 nm - at the side 30 nm - forwards 0 mm onnections/ Terminals Top and bottom rangement of electrical connectors for main current circuit Top and bottom • for main current circuit Top and bottom • for main contacts Top and bottom • for main contacts 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • for main contacts 2x (1 2.5 mm ²), 2x (2.5 10 mm ²) • for main contacts 2x. (1 2.5 mm ²), 2x (14 8) • for main contacts 2 2.5 Nm • for main contacts 2 2.5 Nm • for main contacts Mathematicate • for main contacts 50 00 • for main contacts 50 00 • for main contacts 50 % • for main contacts<			
- downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm onnections/Terminals Top and bottom formatin current circuit screew-type terminals type of electrical connectors for main current circuit Top and bottom of main contacts - solid or stranded - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - fiely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) - fiely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) - fiely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) - for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - for alm contacts with screw-type terminals 2 2.5 Nm design of the screwdriver tip Pozidriv size 2 design of the there of the connection screw M4 if or main contacts M4 effy related data 5 000 proportion of dangerous failures 5 0 % with high d		0 mm	
- upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm onnections/Terminals 0 mm type of electrical connection screw-type terminals - formain current circuit screw-type terminals arrangement of electrical connectors for main current Top and bottom circuit Top and bottom - forby stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - main contacts 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 - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - for adin contacts with screw-type terminals 2 2.5 N-m of or main contacts 2 2.5 N-m design of the thread of the connection screw M4 or or main contacts M4 10 value 5 000 - with high demand rate according to SN 31920 50 % with hig	 for live parts at 690 V 		
- backwards 0 mm - at the side 30 mm - forwards 0 mm onmections? Terminals	— downwards	50 mm	
- at the side 30 mm - forwards 0 mm onnections/Terminals screw-type terminals type of electrical connectors screw-type terminals arrangement of electrical connectors for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom icruit screw-type terminals ype of screwdriver top end with core end processing 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - finely stranded with core end processing 2x (1 2.5 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ² e for main contacts 2x (16 12), 2x (14 8) tightening torque 2 2.5 N m e for main contacts with screw-type terminals 2 2.5 N m design of the thread of the connection screw 6 mm or main contacts M4 active rated fata screwdriver tip Pooldriv size 2 5 000 proportion of dangerous failures 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50	— upwards	50 mm	
forwards 0 mm onections/ Terminals type of electrical connectors for main current circuit connectable conductor cross-sections • for main contacts Top and bottom solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) finely stranded with core end processing 2x (1 2.5 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ³ • for Main contacts 2x (1 2.5 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ³ • for Main contacts with screw-type terminals 2 2.5 N m • for main contacts with screw-type terminals 2 2.5 N m • for main contacts with screw-type terminals 2 2.5 N m • for main contacts Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm • for main contacts M4 of or main contacts M4 etory related data Bio value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 5 000 • with high demand rate according to SN 31920 5 0% • with high demand rate according to SN 31920 5 0% • with high demand rate according to SN 31920 50 % <td< td=""><td>— backwards</td><td>0 mm</td><td></td></td<>	— backwards	0 mm	
onnections/Terminals type of electrical connection screw-type terminals of main current circuit Top and bottom circuit Top and bottom type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ³) - finely stranded with core end processing 2x (1 2.5 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ³ • for AWG cables for main contacts 2x (1 2.5 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ³ • 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 screwdriver tip Pozidriv size 2 design of the thread of the connection screw 4 • for main contacts M4 atoty related data 5000 proportion of dangerous failures 500 • with how demand rate according to SN 31920 50 % • with how demand rate according to SN 31920 50 % • with how demand rate according to SN 31920 50 % • with how demand rate according to IEC 60529 10 a fi	— at the side	30 mm	
type of electrical connection screw-type terminals • for main current circuit Top and bottom type of connectable conductor cross-sections Top and bottom • for main contacts - solid or stranded 2x (1 2.5 mm²), 2x (2.5 10 mm²) - finely stranded with core end processing • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • 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 shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm with loy demand rate according to SN 31920 5 000 proportion of dangerous failures M4 • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % fold Stop • with low demand rate according to SN 31920 50 % fo	— forwards	0 mm	
• for main current circuit screw-type terminals arrangement of electrical connectors for main current Top and bottom 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 (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for MWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for MWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for main contacts with screw-type terminals 2 2.5 N·m design of the thread of the connection screw • for main contacts • for main contacts M4 afoty related data M4 Bi0 value 5 000 • with high demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according t	onnections/ 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 (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for main contacts with screw-type terminals 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for main contacts with screw-type terminals 2 2.5 Nm 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 M4 • for main contacts M4 afety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 60529 IP20 protection or the front according to IEC 60529 Ip20 <tr< td=""><td>type of electrical connection</td><td></td><td></td></tr<>	type of electrical connection		
circuit intervention type of connectable conductor cross-sections intervention information contacts 2x (12.5 mm ²), 2x (2.5 10 mm ²) information contacts 2x (12.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² information contacts 2x (12.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² information contacts with core end processing 2x (12.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² information contacts with core end processing 2x (12.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² information contacts with screw-type terminals 2x (12.5 mm ²), 2x (148) information contacts with screw-type terminals 22.5 N·m design of the cromedriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm size of the screwdriver shaft Diameter 5 to 6 mm with high demand rate according to SN 31920 <t< td=""><td> for main current circuit </td><td>screw-type terminals</td><td></td></t<>	 for main current circuit 	screw-type terminals	
• for main contacts 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 finely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for MMG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • 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 M4 • for main contacts M4 afety related data Ellowalue • with high demand rate according to SN 31920 5 000 • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according		Top and bottom	
- solid or stranded 2x (1 2.5 mm³), 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 (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² - for main contacts with screw-type terminals 2x (1 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 M4 of or main contacts M4 afety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 60529 IP20 touch protection class IP on the front according to IEC 60529 Ip20 touch protection or the front according to IEC 60529 Ip20 touch protection or the front according to IEC 60529 Ip20 touch protection or the front according to IEC 60529 Ip20 touch protectio	type of connectable conductor cross-sections		
finely stranded with core end processing 2x (12.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWG cables for main contacts 2x (16 12), 2x (14 8) tightening torque 2 2.5 N·m • 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 M4 • for main contacts M4 afety related data E B10 value 5 000 • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with low demand rate according to SN 31920 • with low demand rate according to IEC 60529 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 ertificates/ approvals<	for main contacts		
finely stranded with core end processing 2x (12.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWG cables for main contacts 2x (16 12), 2x (14 8) tightening torque 2 2.5 N·m • 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 M4 • for main contacts M4 afety related data E B10 value 5 000 • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with low demand rate according to SN 31920 • with low demand rate according to IEC 60529 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 ertificates/ approvals<	— solid or stranded	2x (1 2.5 mm²), 2x (2.5 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 afety related data - B10 value - • with high demand rate according to SN 31920 5 000 proportion of dangerous failures - • with high demand rate according to SN 31920 50 % stillure rate [FIT] - • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 60529 ID a protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front display version for switching status Handle			
i bit bit bit bit bit bit bit bit bit bi			
• 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 M4 of rmain contacts M4 afety related data M4 B10 value • • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 FIT 1 value for proof test interval or service life according to IEC 60529 IP20 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 ertificates/ approvals Handle			
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 M4 of rmain contacts M4 afety related data 5 000 B10 value 5 000 • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 5 000 • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 FIT 1 value for proof test interval or service life according to IEC 60529 10 a filos 10 a protection class IP on the front according to IEC 60529 Inger-safe, for vertical contact from the front defined to the front according to IEC 60529 display version for switching status Handle ertificates/ approvals Handle		2 25 N·m	
size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M4 afety related data M4 afety related data 5000 bit high demand rate according to SN 31920 5000 proportion of dangerous failures 50% with high demand rate according to SN 31920 50% with high demand rate according to SN 31920 50% with high demand rate according to SN 31920 50% with high demand rate according to SN 31920 50% with high demand rate according to SN 31920 50% with how demand rate according to SN 31920 50 FIT 1 value for proof test interval or service life according to IEC 60529 IP20 protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 Inger-safe, for vertical contact from the front display version for switching status Handle			
design of the thread of the connection screw M4 afety related data M4 afety related data 5000 B10 value 5000 with high demand rate according to SN 31920 5000 proportion of dangerous failures 50% with high demand rate according to SN 31920 50% with high demand rate according to SN 31920 50% with high demand rate according to SN 31920 50% failure rate [FIT] 50% with low demand rate according to SN 31920 50 FIT 1 value for proof test interval or service life according to IEC 60529 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			
• for main contacts M4 afety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures 5 000 • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % • with low demand rate according to SN 31920 50 FIT 1 value for proof test interval or service life according to IEC 60529 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	-		
afety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to IEC 60529 • filos protection class IP on the front according to IEC 60529 • finger-safe, for vertical contact from the front display version for switching status Handle	-	N/4	
B10 value 5 000 with high demand rate according to SN 31920 5 000 proportion of dangerous failures with low demand rate according to SN 31920 • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] 50 FIT • with low demand rate according to SN 31920 50 FIT 11 value for proof test interval or service life according to IEC 61529 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 ertificates/ approvals Handle		IVI4	
• with high demand rate according to SN 31920 5 000 proportion of dangerous failures 50 % • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] 50 % • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to IEC 60529 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 term display version for switching status Handle			
proportion of dangerous failures 50 % • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] 50 % • 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			
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 for proof test interval or service life according to IEC f1 value for proof test interval or service life according to IEC f1 value for proof test interval or service life according to IEC f1 value for protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle ertificates/ approvals		5 000	
with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 S0 % S0 FIT 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 finger-safe, for vertical contact from the front display version for switching status Handle			
failure rate [FIT] 50 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	 with low demand rate according to SN 31920 	50 %	
with low demand rate according to SN 31920 50 FIT 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 finger-safe, for vertical contact from the front display version for switching status Handle retificates/ approvals	 with high demand rate according to SN 31920 	50 %	
T1 value for proof test interval or service life according to IEC 10 a 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	failure rate [FIT]		
61508 IP20 touch protection 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 ertificates/ approvals IP20	 with low demand rate according to SN 31920 	50 FIT	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle ertificates/ approvals Handle		10 a	
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle ertificates/ approvals Handle	protection class IP on the front according to IEC 60529	IP20	
display version for switching status Handle ertificates/ approvals			
ertificates/ approvals			
			For use in barent

	<u>Confirmation</u>	Ű	<u>KC</u>	EHC	IECEx
For use in hazard- ous locations	Declaration of Conformity		Test Certificates		Marine / Shipping
ATEX	CE EG-Konf.	UK CA	Special Test Certific- ate	Type Test Certific- ates/Test Report	ABS
Marine / Shipping					other
BUREAU VERITAS		Hoyds Register urs	PRS	RINA	<u>Confirmation</u>
other	Railway				
	Vibration and Shock	<u>Confirmation</u>			

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=3RV2021-1FA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1FA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1FA10

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

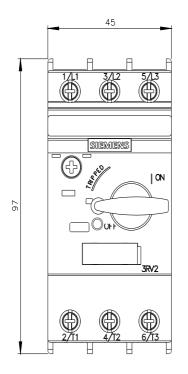
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1FA10&lang=en

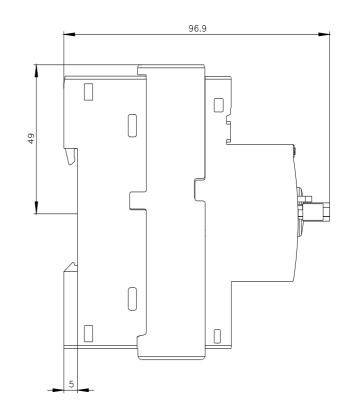
Characteristic: Tripping characteristics, I²t, Let-through current

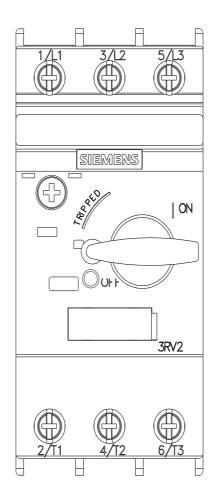
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1FA10/char

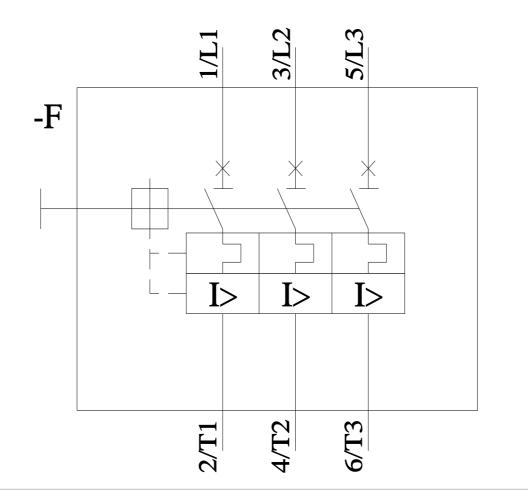
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1FA10&objecttype=14&gridview=view1









last modified:

11/21/2022 🖸