## 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	
<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
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
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
<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	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

<ul> <li>• with side-by-side mounting at the side <ul> <li>• for grounds parts at 400 V</li> <li>- dynwards</li> <li>0 mm</li> <li>- dynwards</li> <li>0 mm</li> <li>- et the side</li> <li>9 mm</li> <li>• for the parts at 400 V</li> <li>- donwards</li> <li>30 mm</li> <li>- upwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- upwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>• for signal data at 500 V</li> <li>- donwards</li> <li>0 mm</li> <li>- forwards</li> <li>0 formal candidate core of processing</li> <li>2 x (1 25 mm<sup>2</sup>), 2x (25 10 mm<sup>2</sup>)</li> <li>- forwards at according to for 31202</li> <l< th=""><th></th><th></th><th></th></l<></ul></li></ul>			
- downwards 30 mm 4 m	<ul> <li>with side-by-side mounting at the side</li> </ul>	0 mm	
- upwards 30 mm 30	<ul> <li>for grounded parts at 400 V</li> </ul>		
	— 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<	<ul> <li>for live parts at 400 V</li> </ul>		
	— downwards	30 mm	
<ul> <li>for grounded parts at 500 V</li> <li>downards</li> <li>downards</li> <li>of the solid</li> <li>mm</li> <li>of the solid</li> <li>mm</li> <li>of the solid at 500 V</li> <li>of or two parts at 500 V</li> <li>of or grounded parts at 600 V</li> <li>of or two parts at 600 V</li> <li>of or two parts at 600 V</li> <li>of or two parts at 600 V</li> <li>of or main contacts</li> <li>of or two contacts</li> <li>of or main contacts</li> <li>of or main contacts</li> <li>of or</li></ul>	— upwards	30 mm	
downwards 90 mm     downards 90 mm	— at the side	9 mm	
downwards 90 mm     downards 90 mm	<ul> <li>for grounded parts at 500 V</li> </ul>		
- 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	
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• 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 <sup>3</sup> ) 2x (2.5 10 mm <sup>3</sup> )       - for ward cables for main contacts     2x (1 (1 2.5 mm <sup>3</sup> ) 2x (2.5 6 mm <sup>3</sup> ) 1x 10 mm <sup>2</sup> - of main contacts     2x (1 (1 2.5 mm <sup>3</sup> ) 2x (2.5 10 mm <sup>3</sup> )       - for ward cables for main contacts     2x (1 (1 2.5 mm <sup>3</sup> ) 2x (2.5 10 mm <sup>3</sup> )       - 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 <sup>2</sup> ), 2x (25 10 mm <sup>2</sup> )       - forwarin contacts     2 x (1 25 mm <sup>2</sup> ), 2x (25 5 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> - for wain contacts     2 x (1 25 mm <sup>2</sup> ), 2x (25 5 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> - for wain contacts with screw-type terminals     2 25 N <sup>m</sup> 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 <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       forwards     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       finely stranded with core end processing     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       finely stranded with core end processing     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       finely stranded with core end processing     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       forwards     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       forwards     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       forwards     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       forwards     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       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 <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       • for main contacts     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       • for main contacts     2x. (1 2.5 mm <sup>2</sup> ), 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	<ul> <li>for live parts at 690 V</li> </ul>		
- 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 <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         - finely stranded with core end processing       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> 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 <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         finely stranded with core end processing       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • for Main contacts       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • 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 <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )           - finely stranded with core end processing         2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • for AWG cables for main contacts         2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>3</sup> • 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 <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         information contacts       2x (12.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> information contacts       2x (12.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> information contacts with core end processing       2x (12.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> information contacts with core end processing       2x (12.5 mm <sup>2</sup> ), 2x (2.5 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> information contacts with screw-type terminals       2x (12.5 mm <sup>2</sup> ), 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><ul> <li>for main current circuit</li> </ul></td><td>screw-type terminals</td><td></td></t<>	<ul> <li>for main current circuit</li> </ul>	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)	
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• 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	-		
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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	
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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	<ul> <li>with high demand rate according to SN 31920</li> </ul>	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	<ul> <li>with low demand rate according to SN 31920</li> </ul>	50 FIT	
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	<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, ...)

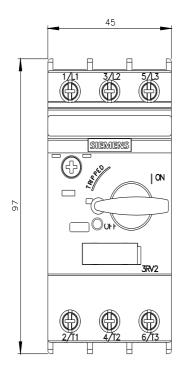
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-1FA10&lang=en

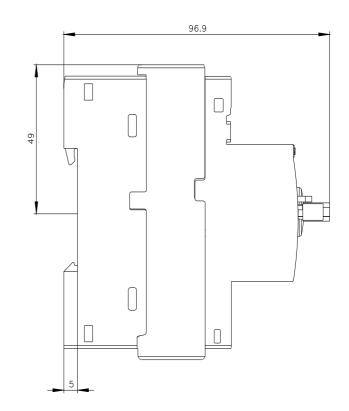
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

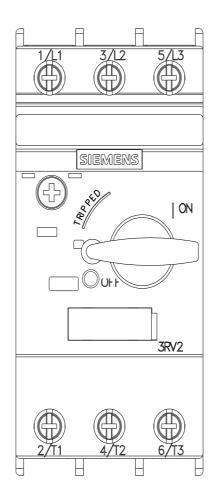
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1FA10/char

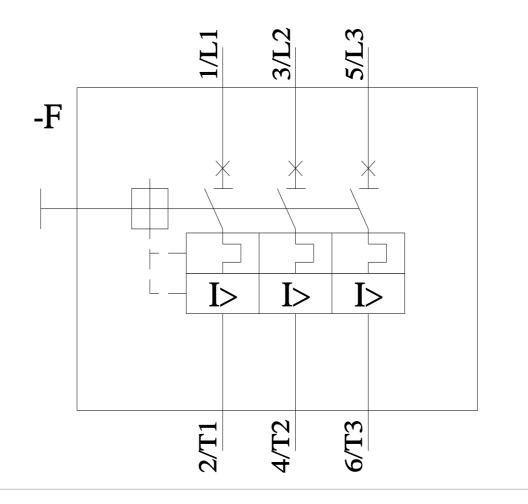
Further characteristics (e.g. electrical endurance, switching frequency)

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









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