SIEMENS

Data sheet 3RV2021-4NA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 23...28 A N-release 364 A screw terminal Standard switching capacity

product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	For motor protection	
product type designation	3RV2	
General technical data		
size of the circuit-breaker	S0	
size of contactor can be combined company-specific	S00, S0	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
 at AC in hot operating state 	13.25 W	
at AC in hot operating state per pole	4.4 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 (switching cycles)		
 of the main contacts typical 	100 000	
of auxiliary contacts typical	100 000	
electrical endurance (switching cycles) typical	100 000	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD	
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001	
reference code 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	23 28 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	28 A
operational current	
at AC-3 at 400 V rated value	28 A
at AC-3e at 400 V rated value	28 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	22 kW
• at AC-3e	EL IVV
— at 230 V rated value	7.5 kW
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	22 kW
operating frequency	ZZ NVV
• at AC-3 maximum	15 1/h
at AC-3 maximum at AC-3e maximum	15 1/h
	10 1/11
Auxiliary circuit	0
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
breaking capacity maximum short-circuit current (Icu)	
 at AC at 240 V rated value 	100 kA
 at AC at 400 V rated value 	55 kA
 at AC at 500 V rated value 	10 kA
at AC at 690 V rated value	4 kA
breaking capacity operating short-circuit current (Ics) at AC	
at 240 V rated value	100 kA
at 400 V rated value	25 kA
at 500 V rated value	5 kA
• at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip	364 A
unit	
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	28 A
at 600 V rated value	28 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	2 hp
— at 230 V rated value	5 hp
• for 3-phase AC motor	
— at 200/208 V rated value	7.5 hp
— at 220/230 V rated value	10 hp
— at 460/480 V rated value	20 hp
Short-circuit protection	
product function short circuit protection	Yes
design of the short-circuit trip	magnetic
design of the fuse link for IT network for short-circuit	
protection of the main circuit	
• at 400 V	gL/gG 63 A

action mounting idmensions mounting position fastening method acrow and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 7 mm with the side 97 mm at the side 9 mm at the side 30 mm beakwards 0 mm at the side 30 mm at the side 30 mm at the side 30 mm beakwards 0 mm beakwards 0 mm at the side 30 mm beakwards 10 mm beakwards 10 mm at the side 30 mm beakwards 10 mm beakward	● at 500 V	gL/gG 63 A
Installation mounting position Tastening method According to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN EN 60715 Act min grow and snapon mounting onto BN 30 mm Act min grow and snapon mounting onto 35 mm standard mounting rail according to DN Min EN 60715 Act min grow and snapon mounting onto BN 30 mm Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31920 Act min grow and snapon mounting onto BN 31		
mounting position fastening method screw and snap on mounting onto 35 mm standard mounting rail according to DIN EN 60715 width 45 mm required spacing • for grounded parts at 400 V - downwards — at the side • for live parts at 400 V - downwards — upwards — 30 mm • for live parts at 400 V - downwards — upwards — 30 mm • or the side • for live parts at 400 V - downwards — upwards — at the side • for grounded parts at 500 V - downwards — at the side • for grounded parts at 500 V - downwards — at the side • for for parts at 500 V - downwards — at the side • for for parts at 500 V - downwards — at the side • for for parts at 500 V - downwards — upwards — at the side • for for parts at 500 V - downwards — upwards — at the side • for grounded parts at 690 V - downwards — or for parts at 500 V - downwards — or for parts at 500 V - downwards — or for parts at 500 V - downwards — or for parts at 500 V - downwards — or for the parts at 500 V - downwards — backwards — upwards — for wards — for wards — or man contacts — upwards — backwards — or man contacts — solid or stranded — flow stranded with core and processing • at AWG cables for main contacts • for m		
Astoning method	-	any
Neight 97 mm 97		screw and snap-on mounting onto 35 mm standard mounting rail
width	height	
Fequired spacing For grounded parts at 400 V		45 mm
• for grounded parts at 400 V	depth	97 mm
downwards	required spacing	
upwards	 for grounded parts at 400 V 	
- at the side • for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards 30 mm • for grounded parts at 500 V - downwards 30 mm - at the side • for live parts at 500 V - downwards 30 mm - at the side • for live parts at 500 V - downwards 30 mm - at the side • for live parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards • for grounded parts at 690 V - downwards - upwards • for grounded parts at 690 V - downwards - beckwards - at the side - of live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards • for main content circuit zerongent of electrical connection • for main current circuit zerongent of electrical connection servew • for main contacts 1	— downwards	30 mm
• for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - upwards - at the side • for live parts at 690 V - downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - upwards - backwards - backwards - backwards - for live parts at 690 V - downwards • for live parts at 690 V - downwards - backwards - backwards - upwards - for live parts at 690 V - downwards - or main current circuit Tuppe of electrical connection - for main current circuit arrangement of electrical connection - for main current circuit arrangement of electrical connection - for main current circuit arrangement of electrical connection - for main current circuit arrangement of electrical connection - for main current circuit arrangement of electrical connection - for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG cables for main contacts - solid or stranded - finely stranded with core end processing - at AIVG	— upwards	30 mm
- downwards - upwards - upwards - at the side 9 mm • for grounded parts at 500 V - downwards 30 mm - at the side 9 mm • for file parts at 500 V - downwards 30 mm - at the side 9 mm • for grounded parts at 500 V - downwards 30 mm - upwards 30 mm - at the side 9 mm • for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - at the side 30 mm	— at the side	9 mm
- upwards - at the side 9 mm - for grounded parts at 500 V - downwards 30 mm - upwards 30 mm - at the side 9 mm - for live parts at 500 V - downwards 30 mm - upwards 50 mm - at the side 9 mm - for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - at the side 30 mm - or man contacts - for live parts at 690 V - downwards 50 mm - the side 30 mm - for live parts at 690 V - downwards 0 mm - for live parts at 690 V - downwards 0 mm - for live parts at 690 V - downwards 0 mm - for live parts at 690 V - downwards 0 mm - for live parts at 690 V - downwards 0 mm - for live parts at 690 V - downwards 50 mm - upwards 0 mm - for live parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - packwards 0 mm	 for live parts at 400 V 	
## at the side	— downwards	30 mm
• for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - upwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - upwards - upwards - backwards - backwards - to five parts at 690 V - downwards - to five parts at 690 V - downwards - backwards - backwards - to five parts at 690 V - downwards - to five parts at 690 V - downwards - to five parts at 690 V - downwards - to five parts at 690 V - downwards - to man contacts - to five parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - to man - at the side - forwards - to man - to read the side - forwards - to man contacts - solid or stranded - five parts at 690 V - for main contacts - solid or stranded - five parts at 690 V - to man contacts - solid or stranded - five parts at 690 V - to man contacts - solid or stranded - five parts at 690 V - to man contacts - solid or stranded - five parts at 690 V - to man contacts - solid or stranded - five parts at 690 V - to man contacts with screw-type terminals - 2x (1 2.5 mm²), 2x (2.5 10 mm²) - 2x (1 2.5 mm	— upwards	30 mm
downwards		9 mm
upwards at the side for live parts at 500 V downwards 30 mm		
- at the side • for live parts at 500 V - downwards		
of riive parts at 500 V — downwards		
- downwards - upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - upwards - backwards - at the side - for wards - forwards - for wards - for main contacts - for		9 mm
- upwards - at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - o mm - backwards - o mm - for live parts at 690 V - downwards • for live parts at 690 V - downwards - upwards - o mm - for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - o mm - backwards - o mm - backwards - o mm - forwards - forwards - o mm - forwards - o mm - o for main current circuit - for main current circuit - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded with core end processing - at AWG cables for main contacts - solid or stranded with core end processing - at AWG cables for main contacts - tightening torqu - for main contacts with screw-type terminals - at AWG cables for main contacts - at AWG cables for		
- at the side 9 mm • for grounded parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm • upwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - at the side 30 mm - forwards 10 mm - forwards 10 mm - for main current circuit 10 screw-type terminals 10 arrangement of electrical connectors for main current circuit 10 finely stranded with core end processing 2x (1 25 mm²), 2x (2.5 10 mm²) - at AWV cables for main contacts 10 tightening torque • for main contacts with screw-type terminals 2x (16 25 mm²), 2x (2.5 6 mm²), 1x 10 mm² - 2 2.5 Nm design of screwdriver shaft 10 iliameter 5 to 6 mm size of the screwdriver tip 10 Pozidriv size 2 design of the thread of the connection screw • for main contacts 10 M4 Safety related data B10 value • with high demand rate according to SN 31920 50 %		
• for grounded parts at 690 V — downwards	•	
- downwards 50 mm		9 mm
- upwards - backwards - at the side - forwards • for live parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - at the side - backwards - at the side - backwards - at the side - forwards - omm - torwards - at the side - forwards - omm - forwards - omm - forwards - omm - forwards - omm - forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts 1tightening torque - formain contacts with screw-type terminals 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8) tightening torque - for main contacts with screw-type terminals 2x (16 12), 2x (14 8) design of screwdriver shaft Dlameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw - for main contacts M4 Safety related data B10 value - 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 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		50
- backwards - at the side - forwards • for live parts at 690 V - downwards - upwards - backwards - backwards - backwards - backwards - at the side - forwards - omm - forwards - omm Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of screwdriver tip for main contacts - with high demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920 proportion of dangerous failures - with low demand rate according to SN 31920		
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- forwards • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards 0 mm - at the side - forwards 0 mm Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals 2 x (1 2.5 mm²), 2x (2.5 10 mm²) 2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2 x (16 12), 2x (14 8) tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver shaft plaineter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw • for main contacts • for main contacts M4 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 so mm 50 mm 50 mm 50 mm 70 mm 70 pand 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 (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 (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 (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 (2.5		
• for live parts at 690 V - downwards - upwards - backwards - at the side - at the side - forwards - forwards **O mm **Onnections/ Terminals **Type of electrical connection • for main current circuit **Type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts **AWG cables for main contacts **Itightening torque • for main contacts with screw-type terminals **Tightening torque • for main contacts with screw-type terminals **Diameter 5 to 6 mm **Jize of the screwdriver shaft size of the screwdriver tip **Diameter 5 to 6 mm **Jize of the screwdriver tip **Jize of the screwdriver the screwdriver the screwdriver the screwdriver the screwdriver the screwdr		
- downwards - upwards - backwards - at the side - forwards 0 mm Connections/ Terminals type of electrical connection • for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals 2 x (1 2.5 mm²), 2x (2.5 10 mm²) 2 x (1 2.5 mm²), 2x (2.5 10 mm²) 2 x (1 2.5 mm²), 2x (2.5 10 mm²) 2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2 x (1 2.5 mm²) be the ma² 2 x (1 2.5 mm²) contacts 4 x (1 2.5 mm²) contacts 5 x (16 12), 2x (14 8) 4 x (16 12), 2x (14 8) 5 x (16 12), 2x (16 12) 5 x (16 12), 2x (16 12) 5 x (16 12), 2x (16 .		UTIIIII
- upwards - backwards - at the side - forwards Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts ### Diameter 5 to 6 mm Diameter 5 to 6 mm Diameter 5 to 6 mm Diameter 5 to 6 mm Size of the screwdriver tip Pozidriv size 2 ### Diameter 5 to 6 mm Safety related data B10 value with high demand rate according to SN 31920 50 %	·	50 mm
- backwards - at the side - forwards 0 mm Connections/ Terminals type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • for main contacts with screw-type terminals 2 x (1 2.5 mm²), 2x (2.5 10 mm²) 2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2 x (16 12), 2x (14 8) 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 ### Diameter 5 to 6 mm Pozidriv size 2 design of the thread of the connection screw • for main contacts ### W4 Safety related data ### B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 ### W5 000 ###		
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type of electrical connection		O THILL
of for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of or main contacts — solid or stranded — finely stranded with core end processing o at AWG cables for main contacts itightening torque of for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw of or main contacts B10 value with high demand rate according to SN 31920 o to proportion of dangerous failures with low demand rate according to SN 31920 o to propertion of dangerous failures o with low demand rate according to SN 31920 o to propertion of dangerous failures o with low demand rate according to SN 31920 o to propertion of dangerous failures o to propertion of dangerous failures o with low demand rate according to SN 31920 o to propertion of dangerous failures o with low demand rate according to SN 31920 o to propertion of dangerous failures o with low demand rate according to SN 31920 o to propertion of dangerous failures o with low demand rate according to SN 31920 o to propertion of dangerous failures o with low demand rate according to SN 31920		
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts B10 value • with high demand rate according to SN 31920 Top and bottom	· ·	screw-tyne terminals
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts ### M4 Safety related data ### B10 value • with high demand rate according to SN 31920 ### First in the procession of the screw o		**
 for main contacts — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts	•	Top and bottom
- solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip • for main contacts • for main contacts by tightening torque • for main contacts with screw-type terminals contacts by tightening torque • for main contacts with screw-type terminals contacts contact	type of connectable conductor cross-sections	
finely stranded with core end processing • at AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip for main contacts • for main contacts • for main contacts M4 Safety 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 low demand rate according to SN 31920 50 %	• for main contacts	
 at AWG cables for main contacts tightening torque for main contacts with screw-type terminals 2 2.5 N·m design of screwdriver shaft piameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw for main contacts M4 Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 50 % 	— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
tightening torque ● for main contacts with screw-type terminals design of screwdriver shaft Size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw ● for main contacts M4 Safety related data B10 value ● with high demand rate according to SN 31920 proportion of dangerous failures ● with low demand rate according to SN 31920 50 %	 finely stranded with core end processing 	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²
 for main contacts with screw-type terminals 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 Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 50 % 	at AWG cables for main contacts	2x (16 12), 2x (14 8)
design of screwdriver shaft size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw of for main contacts M4 Safety related data B10 value owith high demand rate according to SN 31920 proportion of dangerous failures owith low demand rate according to SN 31920 50 %	tightening torque	
size of the screwdriver tip design of the thread of the connection screw of or main contacts M4 Safety related data B10 value of with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 50 %		
design of the thread of the connection screw • for main contacts M4 Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 50 %		Diameter 5 to 6 mm
for main contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 5 000 proportion of dangerous failures with low demand rate according to SN 31920 5 0 %		Pozidriv size 2
B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 5 000 5 000 5 000		
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 %		M4
 with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 50 % 	Safety related data	
proportion of dangerous failures • with low demand rate according to SN 31920 50 %	B10 value	
• with low demand rate according to SN 31920 50 %		5 000
• 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	50 FIT
T1 value for proof test interval or service life according to IEC 61508	10 y
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

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



For use in hazardous locations

Declaration of Conformity

Test Certificates







Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-4NA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4NA10

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4NA10

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

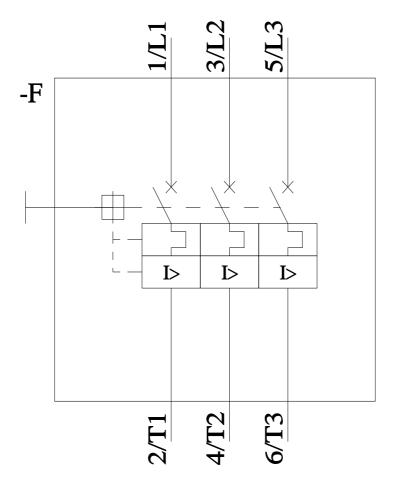
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4NA10\&lang=en}}$

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4NA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4NA10&objecttype=14&gridview=view1



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