SIEMENS

Data sheet 3RV2021-4PA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 30...36 A N-release 432 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	16.25 W
at AC in hot operating state per pole	5.4 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
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-20 +40 °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	30 36 A
operating voltage	
• rated value	20 690 V
at AC-3 rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	36 A

operational current	
•	
at AC-3 at 400 V rated value	36 A
operating power	
• at AC-3	
— at 230 V rated value	7.5 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	30 kW
operating frequency	
• at AC-3 maximum	15 1/h
Auxiliary circuit	
number of NC contacts for auxiliary contacts	0
number of NO contacts for auxiliary contacts	0
number of CO contacts for auxiliary contacts	0
Protective and monitoring functions	
product function	
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 	20 kA
• at AC at 500 V rated value	6 kA
• at AC at 690 V rated value	3 kA
operating short-circuit current breaking capacity (Ics) at AC	
• at 240 V rated value	100 kA
• at 400 V rated value	10 kA
at 500 V rated value	3 kA
at 690 V rated value	2 kA
response value current of instantaneous short-circuit trip unit	432 A
UL/CSA ratings	TOE //
full-load current (FLA) for 3-phase AC motor	00.4
at 480 V rated value	36 A
at 600 V rated value	36 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
 for single-phase AC motor— at 110/120 V rated value	3 hp
• for single-phase AC motor	3 hp 5 hp
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor 	· ·
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value 	· ·
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor 	5 hp
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value 	5 hp 10 hp
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value 	5 hp 10 hp 10 hp
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value 	5 hp 10 hp 10 hp
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value Short-circuit protection	5 hp 10 hp 10 hp 25 hp
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection	5 hp 10 hp 10 hp 25 hp Yes
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — brotaction Short-circuit protection product function short circuit protection design of the short-circuit trip	5 hp 10 hp 10 hp 25 hp Yes
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit	5 hp 10 hp 10 hp 25 hp Yes
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit	5 hp 10 hp 10 hp 25 hp Yes magnetic
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A gG 63 A gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A gG 63 A gG 63 A gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A gG 63 A gG 63 A gG 63 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing • with side-by-side mounting at the side	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A
for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link for IT network for short-circuit protection of the main circuit • at 400 V • at 500 V • at 690 V Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing	5 hp 10 hp 10 hp 25 hp Yes magnetic gG 63 A gG 63 A gG 63 A gG 63 A any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm 45 mm 97 mm

- upwards		
• for live parts at 400 V - Commendeds - upwards - at the side - upwards - other in the side - upwards - other in the side - for promotion during at 1800 V - downwards - upwards - of mm - side in the side - foresects - of mm - of mm - upwards - foresects - foresects - the side - the side - foresects - the	— upwards	30 mm
downwards	— at the side	9 mm
upwards	 for live parts at 400 V 	
at the side 9 mm 30 mm	— downwards	30 mm
at the side	— upwards	30 mm
• for grounded parts at 500 V	·	9 mm
downwards		·
upwards		30 mm
■ of live parts at 500 V - downwards - upwards - at the side of for grounded parts at 600 V - downwards - upwards - upwards - upwards - parts at 600 V - downwards - upwards - the side - at the side - forwards - forwards - onm - forwards - upwards - onm - forwards - onm - forwards - upwards - onm - forwards - onm - forwards - upwards - onm - forwards - upwards - onm - onm - onm - forwards - upwards - onm -		
• for live parts at 500 V — downwards — at the side — of orgrounded parts at 680 V — downwards — upwards — backwards — the side — for live parts at 690 V — downwards — at the side — for wards — of mm — at the side — for wards — of mm — of live parts at 690 V — downwards — for live parts at 690 V — downwards — of mm — of live parts at 690 V — downwards — of mm — of live parts at 690 V — downwards — one wards — upwards — one wards — one wards — at the side — one wards • for main contacts • for main contacts • for main contacts • for main contacts • for main contacts •	•	
		9 111111
upwards	·	••
- at the side • for grounded parts at 680 V - downwards - upwards - at the side - boxwards - or with side - for wards Connections/ Torminals Type of electrical connectors • for main current circuit arrangement of electrical connectors for main current circuit Top and bottom It grade of with side - for with side - for side - fo		
	•	
- downwards - upwards - 0 mm -		9 mm
- upwards	 for grounded parts at 690 V 	
	— downwards	70 mm
- at the side - forwards 0 mm 0 mm 1 mm 1 mm 2 mm 2 mm 2 mm 2 mm	— upwards	70 mm
• for live parts at 690 V - downwards - upwards - upwards - at the side - backwards - at the side - forwards (o mm) o mm) o mm Connections' Terminals Type of electrical connection • for main current circuit type of connectable conductor cross-sections • for main current circuit - solid or stranded - finely stranded with order end processing • for AWG cables for main contacts 4 tightening torque • for main contacts with screw-type terminals - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 2x (16 12), 2x (14 8) design of screwdriver shaft size of the screwdriver tip design of screwdriver tip design of the thread of the connection screw • for main contacts And Safety related data product function suitable for safety function suitability for use • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with light demand rate according to SN 31920 solvative with right demand rate according to SN 31920 solvative with right demand rate according to SN 31920 solvative with right demand rate according to SN 31920 solvative with right demand rate according to SN 31920 solvet high demand rate according	— backwards	0 mm
for live parts at 690 V — downwards — upwards — backwards — backwards — at the side — fornwards — fornwards — fornwards — one feetical connection • for main current circuit arrangement of electrical connectors for main current circuit arrangement of electrical connectors for main current circuit	— at the side	30 mm
- downwards - upwards - upwards - backwards - at the side - forwards - forwards - forwards - 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 • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • for main contacts • for main contacts • for main contacts • for main contacts with screw-type terminals 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 • for AWG cables for main contacts • for main contacts with screw-type terminals 2 2.5 mm design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts M4 Safety related data product function suitable for safety function with fly for use • safety-related switching OFF yes service life maximum 10 a test wear-related service life necessary yes 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 1300 1300 1300 1300 1301 1301 1302 1303 1303 1303 1303 1303 1303 1303 1304 1304 1306 1307 1308 1308 1308 1308 1309	— forwards	0 mm
- downwards - upwards - upwards - backwards - at the side - forwards - forwards - forwards - 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 • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • for main contacts • for main contacts • for main contacts • for main contacts with screw-type terminals 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 • for AWG cables for main contacts • for main contacts with screw-type terminals 2 2.5 mm design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts M4 Safety related data product function suitable for safety function with fly for use • safety-related switching OFF yes service life maximum 10 a test wear-related service life necessary yes 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 1300 1300 1300 1300 1301 1301 1302 1303 1303 1303 1303 1303 1303 1303 1304 1304 1306 1307 1308 1308 1308 1308 1309	• for live parts at 690 V	
- upwards - backwards 0 mm 30 mm 90		70 mm
- backwards - at the side - forwards 0 mm Connections/ Torminals Type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit. Type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • 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 10 mm²) - for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) - for amin 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 Safety related data product function suitable for safety function yes suitability for us • safety-related switching on • safety-related switching oFF service life maximum 10 a test wear-related service life necessary yes 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 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 for FIT SISO 13849 device type according to ISC 13849-2 necessary Fix and the service type according to IEC 61508-2 Type A	— upwards	70 mm
at the side — forwards 0 mm Connections/ Terminals type of electrical connection • for main current circuit surrangement of electrical connectors for main current circuit 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 AWG cables for main contacts 3x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for main contacts with screw-type terminals 2x (16 12), 2x (14 8) tightening torque • for main contacts with screw-type terminals 2x 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 **Safety related data** product function suitable for safety function Yes suitability for use • safety-related switching on No • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary Yes proportion of dangerous failures • with low demand rate according to SN 31920 50 % B10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value with high demand rate according to SN 31920 50 % F10 value value value with high demand rate according to SN 31920 50 % F10 value value value value value valu	•	
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 • for AWG cables for main contacts • for main contacts with screw-type terminals • for MWG cables for main contacts • for main contacts with screw-type terminals • for main contacts with screw-type terminals 2 x (1 2.5 mm²), 2x (2.5 10 mm²) • for AWG cables for main contacts • for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw • for main contacts M4 Safety related data product function suitable for safety function safety-related switching on • safety-related switching on • safety-related switching OFF service life maximum 10 a test wear-related service life necessary 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 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 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 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 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		
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts 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 10 mm²) 2x (1 2.5 mm²),		
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts 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 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 10 mm²) 2x		O HIIII
• for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWIC cables for main contacts • for MIC cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) • for AWIC cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWIC cables for main contacts 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² 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 Safety related data product function suitable for safety function ves suitability for use • safety-related switching on • safety-related switching OFF yes service life maximum 10 a test wear-related service life necessary yes proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 swith high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 soverdimensioning according to ISO 13849-2 necessary Yes ICC 61508 safety device type according to IEC 61508-2 Type A	-	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8) tightening torqu • for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip design of the thread of the connection screw • for main contacts **Or main contacts **M4 **Safety related switching on No • safety-related switching of Yes suitability for use • safety-related switching OFF service life maximum 10 a test wear-related service life necessary yes proportion of dangerous failures • with low demand rate according to SN 31920 **With low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 50 % B10 value with high demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to IEO 61508-2 Type A To a main contacts Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (16 12), 2x (14 8) 10 mm²) 2x (16 12),		
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts • for AWG cables for main contacts • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals design of screwdriver shaft product the thread of the connection screw • for main contacts • for main contacts M4 Safety related data product function suitable for safety function safety-related switching on • safety-related switching OFF service life maximum test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary Figure 12		
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IEC 61508 safety device type according to IEC 61508-2 Type A		Yes
safety device type according to IEC 61508-2 Type A		
		Type A

● for proof test interval or service life according to IEC
61508

Electrical Safety

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

touch protection on the front according to IEC 60529

finger-safe, for vertical contact from the front

Display

display version for switching status

Approvals Certificates

General Product Approval





Confirmation





<u>KC</u>

General Product Approval

For use in hazardous locations

Test Certificates

Marine / Shipping







Special Test Certificate Type Test Certificates/Test Report



Marine / Shipping











Miscellaneous

other

other

Railway

Environment

Confirmation



Special Test Certificate Confirmation



Siemens EcoTech



Further information

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=3RV2021-4PA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4PA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4PA10

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

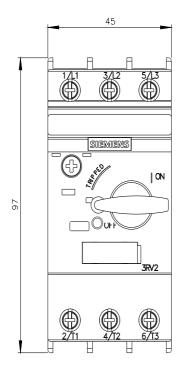
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4PA10&lang=en

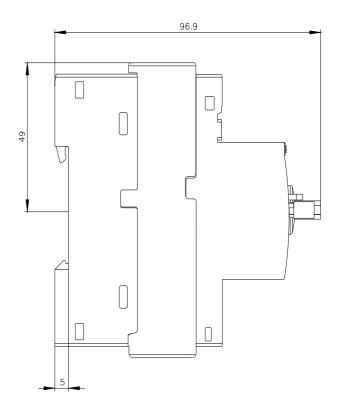
Characteristic: Tripping characteristics, I²t, Let-through current

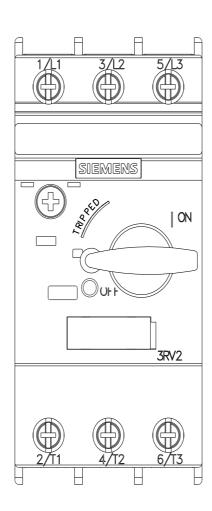
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4PA10/char

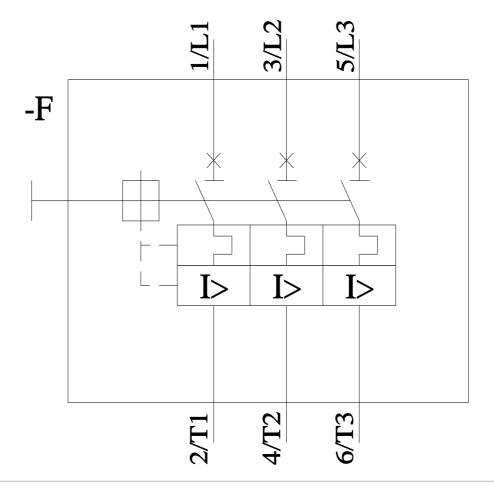
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4PA10&objecttype=14&gridview=view1









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