SIEMENS

Data sheet 3RV2021-4EA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 27...32 A N-release 400 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 (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 Lead titanium zirconium oxide - 12626-81-2
Weight	0.379 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	75.078 kg
global warming potential [CO2 eq] during manufacturing	2.68 kg
global warming potential [CO2 eq] during sales	0.143 kg
global warming potential [CO2 eq] during operation	72.7 kg
global warming potential [CO2 eq] after end of life	-0.445 kg

Siemens Eco Profile (SEP)	Siemens EcoTech
Main circuit	OIGHIGHS EQUI GOT
	2
number of poles for main current circuit	3
adjustable current response value current of the current- dependent overload release	27 32 A
type of voltage for main current circuit	AC
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	32 A
operational current	
 at AC-3 at 400 V rated value 	32 A
at AC-3e at 400 V rated value	32 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	30 kW
• at AC-3e	
— 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	30 kW
operating frequency	
• at AC-3 maximum	15 1/h
at AC-3e maximum	15 1/h
Auxiliary circuit	
type of voltage for auxiliary and control circuit	AC/DC
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	
F	No
ground fault detection	No Yes
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	55 kA
at AC at 500 V rated value	10 kA
at AC at 690 V rated value	4 kA
operating short-circuit current breaking capacity (lcs) 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 unit	400 A
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	32 A
at 600 V rated value	32 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	
	7.5 hp

Short-careal protection Ves Cesting of the state short circuit protection Ves Cesting of the state short circuit protection Ves Cesting of the state short circuit protection Ves Ve	— at 220/230 V rated value	10 hp
	— at 460/480 V rated value	20 hp
design of the serve link for IT network for short-circuit protection of the main circuit a 14 400 V	Short-circuit protection	
design of the fuse link for IT network for short-circuit	product function short circuit protection	Yes
	design of the short-circuit trip	magnetic
### 1500 V		
### SPAN	● at 400 V	gL/gG 63 A
Installation/mounting/idmensions	● at 500 V	gL/gG 63 A
mounting position	● at 690 V	gL/gG 63 A
Assistant Series American Series American Series American Series American Series	Installation/ mounting/ dimensions	
height 97 mm width 45 mm depth 97 mm required spacing ************************************	mounting position	any
width 45 mm depth 97 mm required spacing ************************************	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
Promine Prom	height	97 mm
Tequired spacing With side by-side mounting at the side	width	45 mm
• with side-by-side mounting at the side • for grounded parts at 400 V - downwards - upwards - at the side • for live parts at 400 V - downwards - ownwards - ownwa	depth	97 mm
• for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards — upwards — upwards — upwards — upwards — upwards — at the side • for grounded parts at 500 V — downwards — downwards — upwards — upwards — upwards — upwards — at the side — yeards — upwards — upwards — upwards — at the side — years at 500 V — downwards — downwards — upwards — at the side — years at 500 V — downwards — upwards — upwards — at the side — or grounded parts at 690 V — downwards — the side — or grounded parts at 690 V — downwards — backwards — upwards — backwards — or grounded parts at 690 V — downwards — backwards — or man — at the side — or own and at 690 V — downwards — backwards — or man — or own and at 690 V — downwards — or own and at 690 V — downwards — or own and at 690 V — downwards — or own and at 690 V — downwards — or own and at 690 V — downwards — or own and at 690 V — downwards — or own and at 690 V — own and at	required spacing	
downwards upwards at the side for live parts at 400 V downwards upwards at the side of recommends at the side of recommends at the side of regrounded parts at 500 V downwards upwards at the side upwards at the side of recommends at the side of recommends of recomme	 with side-by-side mounting at the side 	0 mm
- upwards	• for grounded parts at 400 V	
• for live parts at 400 V - downwards - upwards - at the side • for grounded parts at 500 V - downwards - upwards - upwards - upwards - at the side • for live parts at 500 V - downwards - upwards - of rive parts at 500 V - downwards - upwards - of rive parts at 500 V - downwards - upwards - upwards - upwards - upwards - upwards - upwards - of rive parts at 690 V - downwards - upwards - of rive parts at 500 V - downwards - upwards - of rive parts at 500 V - downwards - upwards - onm - backwards - onm - backwards - onm - onwards - of live parts at 590 V - downwards - onm - onwards - onm - backwards - onm - onwards - onma - onma - onwards - onma - onma - onwards - onma - onma - onwards - onma - onma - onwards - onma - onm	— downwards	30 mm
• for live parts at 400 V	— upwards	30 mm
- downwards	— at the side	9 mm
- upwards - at the side • for grounded parts at 500 V - downwards - upwards - at the side • for live parts at 500 V - downwards - at the side • for live parts at 500 V - downwards - upwards - upwards - upwards - upwards - on mm - the side • for grounded parts at 690 V - downwards - at the side • for grounded parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - for wards • for live parts at 690 V - downwards - the side - forwards • for live parts at 690 V - downwards • for live parts at 690 V - downwards - the side - forwards • for live parts at 690 V - downwards - backwards - upwards - backwards - upwards - backwards - upwards - backwards - on mm - at the side - forwards - backwards - on mm - at the side - forwards - backwards - on mm - at the side - forwards - backwards - on mm - at the side - forwards - backwards - on mm - at the side - forwards - backwards - on mm - at the side - forwards - backwards - on mm - at the side - formards - the side - formards - formarded with core end processing - for faw Goalbes for main contacts - for ma	• for live parts at 400 V	
■ 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 30 mm — upwards 30 mm — upwards 9 mm ■ for grounded parts at 690 V — downwards 50 mm — backwards 50 mm — at the side 30 mm — at the side 9 mm ■ for live parts at 690 V — downwards 50 mm — at the side 30 mm — forwards 0 mm ■ for live parts at 690 V — downwards 50 mm ■ for live parts at 690 V — downwards 50 mm ■ for live parts at 690 V — backwards 90 mm ■ for live parts at 690 V — backwards 90 mm ■ for for each connection 10 mm ■ for each connection 2 mm ■ for main current circuit 3 crew-type terminals **Top and bottom** **Top and	— downwards	30 mm
	— upwards	30 mm
- downwards	— at the side	9 mm
- 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 • for grounded parts at 690 V - downwards - upwards - backwards - at the side - for omman contacts - at the side - for wards • 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 current circuit - forowards - packwards - on mm - forwards - on mm - forwards - for main current circuit - for main current circuit - screw-type terminals - solid or stranded - finely stranded with core end processing - for AWG cables for main contacts - for main contacts with screw-type terminals - for main contacts with screw-type	 for grounded parts at 500 V 	
	— downwards	30 mm
• for live parts at 500 V — downwards — upwards — at the side 9 mm • for grounded parts at 690 V — downwards — upwards — upwards — upwards — backwards — at the side 9 mm • for live parts at 690 V — downwards — for live parts at 690 V — downwards — on mm • for live parts at 690 V — downwards — backwards — upwards — upwards — upwards — backwards — upwards — backwards — upwards — backwards — upwards — backwards — on mm • for main contection • 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 MG 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 Pozidriv size 2	— upwards	30 mm
- downwards 30 mm - upwards 9 mm - at the side 9 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - for live parts at 690 V - downwards 50 mm - for wards 0 mm - for wards 0 mm - for wards 0 mm - for live parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - backwards 0 mm - at the side 30 mm - backwards 0 mm - at the side 30 mm - forwards 50 mm - part the side 30 mm - the side 30 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm Connections / terminals type of electrical connection	— at the side	9 mm
- upwards - 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 • for live parts at 690 V - downwards 50 mm • for live parts at 690 V - downwards 50 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 0 mm - the side 30 mm - forwards 0 mm - forwards 0 mm - forwards - at the side 30 mm - forwards 0 mm - formaricult type of electrical connection • for main current circuit screw-type terminals 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 MWG cables for main contacts • for main contacts with screw-type terminals tightening torque • for main contacts with screw-type terminals 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	 for live parts at 500 V 	
- at the side • for grounded parts at 690 V - downwards - upwards - backwards - at the side - forwards - forwards - forwards - forwards • for live parts at 690 V - downwards - upwards - forwards - forwards - forwards - forwards - forwards - forwards - upwards - backwards - upwards - backwards - upwards - at the side - forwards - onm - the side - forwards - onm - towards - onm - forwards - forwards - forwards - forwards - forwards - forwards - formain current circuit - for main current circuit - solid or stranded - for main contacts - solid or stranded - finely stranded with core end processing - for AWC cables for main contacts - for AWC cables for main contacts - for main contacts - for main contacts - for main contacts - for ormain contacts - for main contacts - for main contacts - for main contacts - for ormain contacts - for main contacts with screw-type terminals - 2 2.5 N·m - design of screwdriver tip - pozidriv size 2	— downwards	30 mm
• for grounded parts at 690 V - downwards - upwards - backwards - backwards - o mm - at the side - forwards - for live parts at 690 V - downwards - upwards - o mm • for live parts at 690 V - downwards - upwards - backwards - o mm - backwards - o mm - at the side - forwards - o mm - at the side - o mm - orwards - o mm - at the side - o mm - orwards - o mm - ormain current circuit arrangement 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 AWG cables for main contacts - for main contacts with screw-type terminals tightning torqu - for main contacts with screw-type terminals 2 2.5 mm², 2x (2.5 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 power of main contacts - pozidriv size 2	— upwards	30 mm
- downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - at the side 30 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - formain current circuit screw-type terminals **Top and bottom** **Top and bottom** **Top and bottom** **Inely stranded with core end processing 2x (1 2.5 mm²), 2x (2.5 10 mm²) - for AWG cables for main contacts 2x (16 12), 2x (14 8) **Ightening torque - for main contacts with screw-type terminals 2 2.5 N·m **Death of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm **Joint of the screwdriver shaft Diameter 5 to 6 mm	— at the side	9 mm
- upwards - backwards - at the side - forwards o mm • for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - backwards - towards - at the side - forwards 0 mm - 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 • for AWG cables for main contacts • for MWG cables for main contacts 2 x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² • for AWG cables for main contacts 2 x (1 2.5 mm²), 2x (14 8) tightening torque • for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip	 for grounded parts at 690 V 	
- backwards 0 mm - at the side 30 mm - forwards 0 mm • for live parts at 690 V - downwards 50 mm - backwards 0 mm - backwards 0 mm - at the side 30 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals 1 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 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	— downwards	50 mm
- at the side - forwards 0 mm • for live parts at 690 V - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - at the side 50 mm - towards 0 mm - at the side 30 mm - 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 • for AWG cables for main contacts 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	— upwards	50 mm
- forwards • for live parts at 690 V - downwards - upwards - backwards - at the side - forwards 0 mm - 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 • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	— backwards	0 mm
 • for live parts at 690 V — downwards — upwards — 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 • 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 AWG cables for main contacts 2x (16 12), 2x (14 8) tightening torque • for main contacts with screw-type terminals 2 2.5 N·m design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip 	— at the side	30 mm
- downwards - upwards - upwards - backwards - at the side - 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 tightening torque • for main contacts with screw-type terminals 2 2.5 N·m design of screwdriver shaft Diameter 5 to 6 mm 5 0 mm 5 0 mm 7 0 mm 7 0 mm 7 0 pm 7 0 pm 8 0 pm 9 0 pm	— forwards	0 mm
- upwards - backwards 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 • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals 2 2.5 N⋅m design of screwdriver shaft Diameter 5 to 6 mm poxidriv size 2	• for live parts at 690 V	
backwards 0 mm at the side 30 mm forwards 0 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals arrangement 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 tightening torque • for main contacts with screw-type terminals design of screwdriver shaft pointer 5 to 6 mm size of the screwdriver tip Diameter 5 to 6 mm	— downwards	50 mm
- at the side - forwards 0 mm Connections/ Terminals type of electrical connection	— upwards	50 mm
Tonnections/ Terminals type of electrical connection	— backwards	0 mm
type of electrical connection • for main current circuit screw-type terminals 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 (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	— at the side	30 mm
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts (a) for MWG cables for main contacts tightening torque • for main contacts with screw-type terminals 2 2.5 N·m design of screwdriver shaft Diameter 5 to 6 mm Pozidriv size 2		0 mm
 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 for AWG cables for main contacts 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 Fozidriv size 2 	Connections/ Terminals	
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 (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	type of electrical connection	
type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for AWG cables for main contacts tightening torque • for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip	for main current circuit	screw-type terminals
 for main contacts solid or stranded finely stranded with core end processing for AWG cables for main contacts tightening torque for main contacts with screw-type terminals 2 2.5 N·m design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2 		Top and bottom
solid or stranded finely stranded with core end processing 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) 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	type of connectable conductor cross-sections	
— 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) 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	• for main contacts	
• for AWG cables for main contacts 2x (16 12), 2x (14 8) tightening torque • for main contacts with screw-type terminals 2 2.5 N⋅m design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	— solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)
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	 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	for AWG cables for main contacts	2x (16 12), 2x (14 8)
design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2	tightening torque	
size of the screwdriver tip Pozidriv size 2	• for main contacts with screw-type terminals	2 2.5 N·m
·	design of screwdriver shaft	Diameter 5 to 6 mm
design of the thread of the connection screw	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 	40 %
with high demand rate according to SN 31920	50 %
B10 value with high demand rate according to SN 31920	5 000
failure rate [FIT] with low demand rate according to SN 31920	50 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
T1 value	
 for proof test interval or service life according to IEC 61508 	10 a
Electrical Safety	
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	
display version for switching status	Handle
Approvals Certificates	











<u>KC</u>



General Product Approval

For use in hazardous locations

Test Certificates

Maritime application







Special Test Certificate

Type Test Certificates/Test Report



Maritime application











Miscellaneous

other

other



Confirmation



Special Test Certificate

Railway

Confirmation



Environment

Environment



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=3RV2021-4EA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-4EA10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA10

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

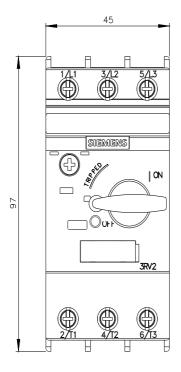
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-4EA10&lang=en

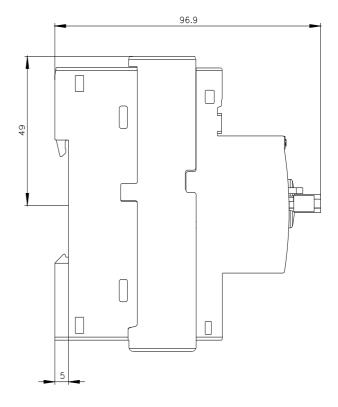
Characteristic: Tripping characteristics, I²t, Let-through current

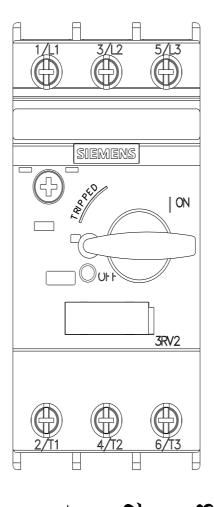
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-4EA10/char

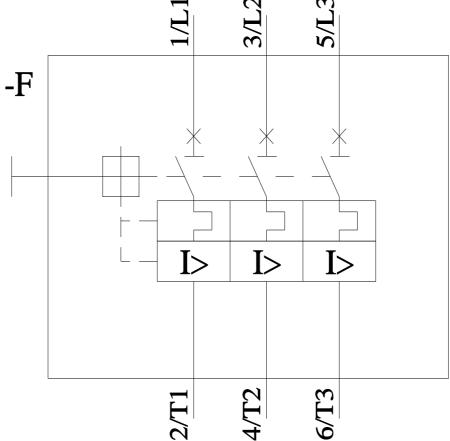
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-4EA10&objecttype=14&gridview=view1









last modified: 5/16/2025 🖸