SIEMENS

Data sheet 3RV2021-1GA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 4.5...6.3 A N-release 82 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 	7.25 W
 at AC in hot operating state per pole 	2.4 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
shock resistance according to IEC 60068-2-27	25g / 11 ms
mechanical service life (operating cycles)	
 of the main contacts typical 	100 000
of auxiliary contacts typical	100 000
electrical endurance (operating cycles) typical	100 000
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Blei - 7439-92-1
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	4.5 6.3 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	6.3 A

* al AG-3e at 400 V roted value 5.3 A	operational current	
	• at AC-3 at 400 V rated value	6.3 A
** al AC-3	• at AC-3e at 400 V rated value	6.3 A
	operating power	
at 400 V rated value	• at AC-3	
at 400 V rated value	— at 230 V rated value	1.5 kW
		4 KVV
		4.5.1241
operating frequency		
operating frequency • at AC-3 maximum • at AC-3 m	— at 500 V rated value	3 kW
at AC-3 maximum at AC-3 maximum bit AC-3 ce maximum at AC-3 ce maximum author of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts product function aground fault detection beground fault detection ground fault detection yes class and accordance design of the overload release thermal maximum short-circuit current breaking capacity (icu) at AC at 420 V rated value at AC at 440 V rated value at AC at 450 V rated value bit AC at 450 V rated value at AC at 450 V rated value bit AC at 450 V rated value at AC at 450 V rated value bit A	— at 690 V rated value	4 kW
4 AC-36 maximum	operating frequency	
Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function or ground fault detection Yes product function or ground fault detection Yes trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) or at AC at 240 V rated value or at AC at 500 V rated value or at AC at 400 V rated value or at 690 V rated value or at 490 V rated value or at 690 V rated value or a	• at AC-3 maximum	15 1/h
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts Protective and monitoring functions product function	at AC-3e maximum	15 1/h
number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts Protective and monitoring functions product function	Auxiliary circuit	
number of NO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts Protective and monitoring functions product function		0
number of CO contacts for auxiliary contacts Protoctive and monitoring functions product function ground fault detection		
Protective and monitoring functions product function		
product function	· ·	
ground fault detection phase failure detection product function and protection product function and protection product function short-circuit current breaking capacity (Icu) eat AC at 240 V rated value eat AC at 400 V rated value eat AC at 500 V rated value eat AC at 500 V rated value eat AC at 500 V rated value eat AC at 400 V rated value eat 400 V rated value eat 400 V rated value eat 500 V rated value eat 200 V rated value eat 500 V rated value e		
phase failure detection trip class CLASS 10 design of the overload release maximum short-circuit current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value at AC at 500 V rated value at AC at 400 V rated value be at AC at 690 V rated value at AC at 500 V rated value be at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value be at 590 V rated value be at 575600 V rated value be at 690 V rated value be at 6	•	No
trip class CLASS 10	-	
design of the overload release maximum short-circult current breaking capacity (Icu) at AC at 240 V rated value at AC at 400 V rated value at AC at 500 V rated value at AC at 690 V rated value berrating short-circult current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 400 V rated value at 500 V rated value at 690 V rated value berratination of the foliation of the folia	·	
maximum short-circuit current breaking capacity (lcu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 500 V rated value • at 480 V rated value • at 630 V rated value • 10.5 hp • for single-phase AC motor • at 100/120 V rated value • 10.5 hp • for 3-phase AC motor • at 200/230 V rated value • 1.5 hp • at 200/230 V rated value • 1.5 hp • at 460/480 V rated value • 3 hp • at 575/600 V rated value • 3 hp product function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method height 97 mm width	<u> </u>	
		thermal
at AC at 500 V rated value at AC at 690 V rated value operating short-circuit current breaking capacity (ics) at AC at 240 V rated value 100 kA at 400 V rated value 100 kA at 500 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 4 kA response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 5 at 690 V rated value 6 .3 A at 600 V rated value 6 .3 A at 100 V rated value 6 .3 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 10 .25 hp — at 220/230 V rated value 10 .5 hp at 220/230 V rated value 11 hp — at 220/230 V rated value 11 hp — at 460/480 V rated value 15 hp Short-circuit protection product function short circuit protection 4 design of the short-circuit trip mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width	at AC at 240 V rated value	100 kA
at AC at 690 V rated value operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 690 V rated value befor single-phase AC motor at 110/120 V rated value at 230 V rated value at 230 V rated value at 230 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 befor 3-phase AC motor at 290/298 V rated value at 460/480 V rated value befor 3-phase AC motor at 260/298 V rated value at 575/600 V rated value befor 3-phase AC motor reat 270/298 V rated value befor 3-phase AC motor yes design of the short-circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height yeith	 at AC at 400 V rated value 	100 kA
operating short-circuit current breaking capacity (lcs) at AC at 240 V rated value at 400 V rated value 100 kA at 500 V rated value 100 kA at 500 V rated value 4 kA response value current of instantaneous short-circuit trip unit 82 A UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 6.3 A at 600 V rated value 6.3 A if the for single-phase AC motor - at 480 V rated value 6.3 A yielded mechanical performance [hp] of or single-phase AC motor - at 110/120 V rated value 0.25 hp - at 230 V rated value 1 hp - at 220/230 V rated value 1 hp - at 220/230 V rated value 1 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 3 hp - at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width	 at AC at 500 V rated value 	100 kA
	 at AC at 690 V rated value 	6 kA
• at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value response value current of instantaneous short-circuit trip unit ### ### ### ### ### ### ### ### ### #	operating short-circuit current breaking capacity (Ics) at AC	
at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit UL/GSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value bfor single-phase AC motor at 110/120 V rated value at 230 V rated value bfor 3-phase AC motor at 230 V rated value at 200/208 V rated value at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value bfor 575/600 V rated value at 6575/600 V rated value	at 240 V rated value	100 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value of or 3-phase AC motor at 1200/208 V rated value of or 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value by the short-circuit protection product function short circuit protection product function short circuit trip mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width	at 400 V rated value	100 kA
at 690 V rated value response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value of or 3-phase AC motor at 1200/208 V rated value of or 3-phase AC motor at 200/208 V rated value at 200/208 V rated value at 460/480 V rated value at 575/600 V rated value by the short-circuit protection product function short circuit protection product function short circuit trip mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width	at 500 V rated value	100 kA
response value current of instantaneous short-circuit trip unit UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 6.3 A • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value 0.25 hp — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 1 hp — at 220/230 V rated value 1.5 hp — at 460/480 V rated value 3 hp — at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method height width 45 mm		
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full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • 6.3 A yielded mechanical performance [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 • for 3-phase AC motor — at 200/208 V rated value • at 220/230 V rated value — at 220/230 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — by 5 hp Short-circuit protection product function short circuit protection any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm		0271
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• at 600 V rated value • 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 575/600 V rated value — at 575/600 V rated value — by Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method height — 97 mm width ### AS A A A A A B A B A B A B A B		004
yielded mechanical performance [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 1 hp — at 220/230 V rated value 1.5 hp — at 460/480 V rated value 3 hp — at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width		
• for single-phase AC motor — at 110/120 V rated value		6.3 A
- at 110/120 V rated value 0.25 hp - at 230 V rated value 0.5 hp • for 3-phase AC motor - at 200/208 V rated value 1 hp - at 220/230 V rated value 1.5 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width		
- at 230 V rated value • for 3-phase AC motor - at 200/208 V rated value 1 hp - at 220/230 V rated value 1.5 hp - at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm	for single-phase AC motor	
for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — by 5 hp Short-circuit protection product function short circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm	— at 110/120 V rated value	0.25 hp
- at 200/208 V rated value 1.5 hp - at 220/230 V rated value 3 hp - at 460/480 V rated value 5 hp Short-circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm	— at 230 V rated value	0.5 hp
- at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm	• for 3-phase AC motor	
- at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm	— at 200/208 V rated value	1 hp
- at 460/480 V rated value 3 hp - at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm	— at 220/230 V rated value	1.5 hp
— at 575/600 V rated value 5 hp Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm	— at 460/480 V rated value	
Short-circuit protection product function short circuit protection design of the short-circuit trip magnetic Installation/ mounting/ dimensions mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm		
product function short circuit protection design of the short-circuit trip Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm		
design of the short-circuit trip magnetic Installation/ mounting/ dimensions any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm		Vac
Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm		
mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmwidth45 mm		magnetic
fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height97 mmwidth45 mm		
height 97 mm width 45 mm		•
width 45 mm	fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
	height	97 mm
depth 97 mm	width	45 mm
V 111111	depth	97 mm

required spacing	
with side-by-side mounting at the side	0 mm
• for grounded parts at 400 V	
— downwards	30 mm
— upwards	30 mm
— at the side	9 mm
 for live parts at 400 V 	
— downwards	30 mm
— upwards	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 live 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
— forwards	0 mm
for live parts at 690 V	
— downwards	50 mm
— upwards	50 mm
— backwards	0 mm
— at the side	30 mm
— forwards	0 mm
Compostional Tayminala	
Connections/ Terminals	
type of electrical connection	
type of electrical connection • for main current circuit	screw-type terminals
type of electrical connection • for main current circuit arrangement of electrical connectors for main current	screw-type terminals Top and bottom
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit	
type of electrical connection • for main current circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	
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	Top and bottom
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	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 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	Top and bottom
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	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 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 tightening torque	Top and bottom 2x (1 2.5 mm²), 2x (2.5 10 mm²) 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 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	Top and 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 (16 12), 2x (14 8)
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 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 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	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2
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 size of the screwdriver tip design of the thread of the connection screw	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2
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 size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4
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 size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT
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 size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 %
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT 5 000
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 size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT
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	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT 5 000
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 size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 Electrical Safety	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT 5 000
type of electrical connection	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT 5 000
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 size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 B10 value with high demand rate according to SN 31920 IEC 61508 T1 value for proof test interval or service life according to IEC 61508 Electrical Safety	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT 5 000
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	Top and 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 (16 12), 2x (14 8) 2 2.5 N·m Diameter 5 to 6 mm Pozidriv size 2 M4 50 % 50 % 50 FIT 5 000 10 a IP20 finger-safe, for vertical contact from the front





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



Confirmation

EPD Typ II/III (with life cylce assessment)

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2021-1GA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2021-1GA10} \\$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1GA10

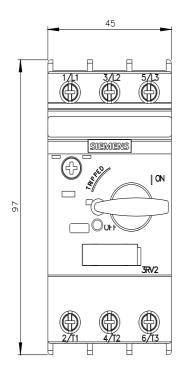
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

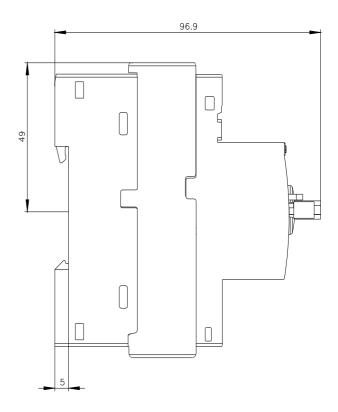
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2021-1GA10&lang=en

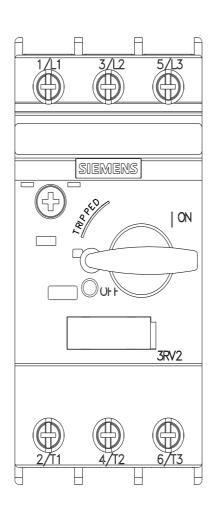
Characteristic: Tripping characteristics, I2t, Let-through current

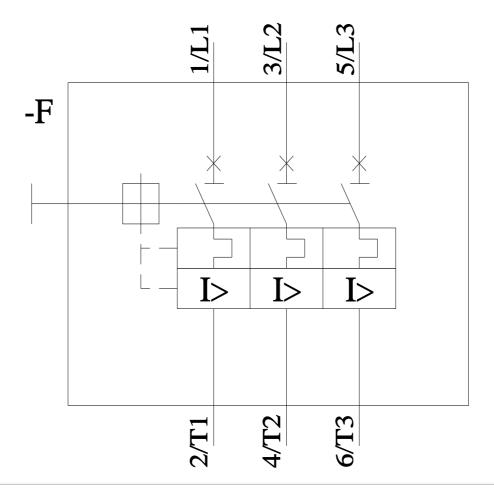
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1GA10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1GA10&objecttype=14&gridview=view1









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