Data sheet

Special type Circuit breaker size S0 for transformer protection Arelease 13...20 A N-release 325 A Screw terminal Standard switching capacity Ambient temperature -50 °C 500 switching cycles



Figure similar

Product brand name	SIRIUS
Product designation	Circuit breaker
Design of the product	For transformer 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] total typical	8 W
Insulation voltage with degree of pollution 3 rated	690 V
value	
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	
 in networks with grounded star point between 	400 V
main and auxiliary circuit	

Protection class IP	
• on the front	IP20
• of the terminal	IP20
Shock resistance	
• acc. to IEC 60068-2-27	25g / 11 ms
Mechanical service life (switching cycles)	
 of the main contacts typical 	500
 of auxiliary contacts typical 	500
Electrical endurance (switching cycles)	
• typical	500
Certificate of suitability ATEX	No
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529
Reference code acc. to DIN EN 81346-2	Q
Ambient conditions	
Installation altitude at height above sea level	
• maximum	2 000 m
Ambient temperature	
during operation	-50 +60 °C
during storage	-50 +80 °C
during transport	-50 +80 °C
Temperature compensation	-20 +60 °C
Relative humidity during operation	10 95 %
Main circuit	
Number of poles for main current circuit	3
Adjustable pick-up value current of the current-	13 20 A
dependent overload release	
Operating voltage	
• rated value	690 V
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	20 A
Operating current	
• at AC-3	
— at 400 V rated value	20 A
Operating power	
• at AC-3	
— at 230 V rated value	5 500 W
— at 400 V rated value	7 500 W
— at 500 V rated value	11 000 W
— at 690 V rated value	15 000 W
Operating frequency	
• at AC-3 maximum	15 1/h

Number of NC contacts for auxiliary contacts Number of NO contacts for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 0 Protective and monitoring functions Product function • Ground fault detection • Phase failure detection • Phase failure detection Trip class CLASS 10 Design of the overload release Operational short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • with 3 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 5 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip un	Auxiliary circuit	
Number of CO contacts • for auxiliary contacts • for ouxiliary contacts O Protective and monitoring functions Product function • Ground fault detection • Phase failure detection Yes Trip class CLASS 10 Design of the overload release CLASS 10 Design of the overload release Operational short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 550 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 550 V rated value • at AC at 690 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • with 3 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit • of instantaneous short-cir		0
Protective and monitoring functions Product function • Ground fault detection • Phase failure detection Trip class CLASS 10 Design of the overload release Operational short-circuit current breaking capacity (Ica) at AC • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at AC at 500 V rated value • at AC at 800 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit 325 A UL/OSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 230 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor	Number of NO contacts for auxiliary contacts	0
Product function • Ground fault detection • Phase failure detection Phase failure detection • Phase failure detection • Phase failure detection Phase failure detection Possign of the overload release Operational short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 680 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 260 V rated value • at AC at 680 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 260 V rated value • with 3 current path at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • 1.5 hp - at 230 V rated value • for three-phase AC motor — at 110/120 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor	Number of CO contacts	
Product function • Ground fault detection • Phase failure detection • Phase failure detection • Phase failure detection Trip class Design of the overload release Operational short-circuit current breaking capacity (los) at AC • at 240 V rated value • at 600 V rated value • at 600 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit • of instantaneous short-circuit trip unit • of insulateneous phort-circuit trip unit •	• for auxiliary contacts	0
Ground fault detection Phase failure detection Phase	Protective and monitoring functions	
Phase failure detection Pesign of the overload release CLASS 10 Design of the overload release Operational short-circuit current breaking capacity (Ics) at AC at 240 V rated value at 400 V rated value at 690 V rated value at 690 V rated value bat AC at 240 V rated value at AC at 240 V rated value bat AC at 240 V rated value at AC at 240 V rated value bat AC at 3500 V rated value bat AC at 690 V rated value bat AC at convert paths in series at DC at 300 V bat AC at convert paths in series at DC at 300 V bat AC at convert paths in series at DC at 450 V bat AC at 300 V rated value converting active activ	Product function	
Trip class CLASS 10 Design of the overload release Operational short-circuit current breaking capacity (ics) at AC • at 240 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 3500 V rated value • at AC at 3500 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 690 V rated value • at 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit 20 A Vicided mechanical performance [hp] • for single-phase AC motor - at 110/120 V rated value - at 230 V rated value • for three-phase AC motor - at 230 V rated value • for three-phase AC motor - at 2200/208 V rated value • for three-phase AC motor - at 2200/208 V rated value • for three-phase AC motor - at 2200/208 V rated value • for three-phase AC motor	Ground fault detection	No
Design of the overload release Operational short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value • at AC at 240 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit 25 A DUCSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value • at 600 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 three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor	Phase failure detection	Yes
Operational short-circuit current breaking capacity (Ics) at AC • at 240 V rated value • 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 • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 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 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • of or single-phase AC motor — at 110/120 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp	Trip class	CLASS 10
(Ics) at AC • at 240 V rated value	Design of the overload release	thermal
at 400 V rated value at 500 V rated value bat 690 V rated value at 690 V rated value at 690 V rated value at AC at 240 V rated value at AC at 240 V rated value at AC at 240 V rated value bat AC at 500 V rated value at AC at 690 V rated value bat AC		
at 500 V rated value at 690 V rated value at 690 V rated value at AC at 240 V rated value at AC at 500 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 690 V rated value at AC at 500 V rated value at C at 690 V rated value at C at 690 V rated value at 1 current path at DC at 150 V rated value with 2 current paths in series at DC at 300 V rated value with 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value awith 3 current paths in series at DC at 450 V rated value avith 3 current paths in series at DC at 450 V rated value avith 3 current paths in series at DC at 300 V rated value avith 3 current paths in series at DC at 300 V rated value avith 4 kA breaking avith 4 kA brea	● at 240 V rated value	100 kA
• at 690 V rated value 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 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 1 current path at DC at 150 V rated value • with 2 current path at DC at 150 V rated value • with 3 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for single-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp	• at 400 V rated value	25 kA
Maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 300 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • with 3 current paths in series at DC at 450 V rated value • of instantaneous short-circuit trip unit • of instantaneous short-circuit trip unit ULI/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp	• at 500 V rated value	5 kA
at AC at 240 V rated value at AC at 400 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 C at 690 V rated value breaking capacity short-circuit current (Icn) at 1 current path at DC at 150 V rated value with 2 current paths in series at DC at 300 V rated value with 3 current paths in series at DC at 450 V rated value with 3 current paths in series at DC at 450 V rated value of instantaneous short-circuit trip unit breakings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value for single-phase AC motor — at 110/120 V rated value at 230 V rated value at 230 V rated value for three-phase AC motor — at 230 V rated value for three-phase AC motor — at 200/208 V rated value 7.5 hp	• at 690 V rated value	2 kA
at AC at 400 V rated value at AC at 500 V rated value 10 kA at AC at 690 V rated value 4 kA Breaking capacity short-circuit current (Icn) at 1 current path at DC at 150 V rated value 10 kA with 2 current paths in series at DC at 300 V rated value with 3 current paths in series at DC at 450 V rated value with 3 current paths in series at DC at 450 V rated value of instantaneous short-circuit trip unit 8 csponse value current of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value of cr single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value of or three-phase AC motor — at 230 V rated value of or three-phase AC motor — at 200/208 V rated value 7.5 hp	Maximum short-circuit current breaking capacity (Icu)	
at AC at 500 V rated value at AC at 690 V rated value at AC at 690 V rated value breaking capacity short-circuit current (Icn) at 1 current path at DC at 150 V rated value with 2 current paths in series at DC at 300 V rated value with 3 current paths in series at DC at 450 V rated value with 3 current paths in series at DC at 450 V rated value rated value Response value current of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value of or single-phase AC motor — at 110/120 V rated value at 20 A Yielded mechanical performance [hp] of or single-phase AC motor — at 230 V rated value of or three-phase AC motor — at 200/208 V rated value 7.5 hp	• at AC at 240 V rated value	100 kA
at AC at 690 V rated value Breaking capacity short-circuit current (Icn) at 1 current path at DC at 150 V rated value with 2 current paths in series at DC at 300 V rated value with 3 current paths in series at DC at 450 V rated value with 3 current paths in series at DC at 450 V rated value Response value current of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value at 600 V rated value Yielded mechanical performance [hp] of or single-phase AC motor — at 110/120 V rated value at 230 V rated value for three-phase AC motor — at 230 V rated value of to three-phase AC motor — at 200/208 V rated value 7.5 hp	• at AC at 400 V rated value	55 kA
Breaking capacity short-circuit current (Icn) • at 1 current path at DC at 150 V rated value • with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value Response value current • of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value • 7.5 hp	• at AC at 500 V rated value	10 kA
at 1 current path at DC at 150 V rated value with 2 current paths in series at DC at 300 V rated value with 3 current paths in series at DC at 450 V rated value Response value current of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value for single-phase AC motor at 110/120 V rated value for single-phase AC motor at 230 V rated value for three-phase AC motor at 230 V rated value for three-phase AC motor at 230 V rated value for three-phase AC motor at 200/208 V rated value 7.5 hp	• at AC at 690 V rated value	4 kA
• with 2 current paths in series at DC at 300 V rated value • with 3 current paths in series at DC at 450 V rated value Response value current • of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp	Breaking capacity short-circuit current (lcn)	
rated value • with 3 current paths in series at DC at 450 V rated value Response value current • of instantaneous short-circuit trip unit 20 A • at 480 V rated value • at 480 V rated value • at 600 V rated value • for single-phase AC motor — at 110/120 V rated value • for three-phase AC motor — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp	• at 1 current path at DC at 150 V rated value	10 kA
rated value Response value current • of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value • at 600 V rated value 20 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp	·	10 kA
of instantaneous short-circuit trip unit 325 A UL/CSA ratings Full-load current (FLA) for three-phase AC motor at 480 V rated value at 600 V rated value 20 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value of or three-phase AC motor — at 200/208 V rated value 7.5 hp		10 kA
UL/CSA ratings Full-load current (FLA) for three-phase AC motor • at 480 V rated value 20 A • at 600 V rated value 20 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value 3 hp • for three-phase AC motor — at 200/208 V rated value 7.5 hp	Response value current	
Full-load current (FLA) for three-phase AC motor • at 480 V rated value 20 A • at 600 V rated value 20 A Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value 3 hp • for three-phase AC motor — at 200/208 V rated value 7.5 hp	• of instantaneous short-circuit trip unit	325 A
 at 480 V rated value at 600 V rated value 20 A Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for three-phase AC motor — at 200/208 V rated value 7.5 hp 	UL/CSA ratings	
 at 600 V rated value Yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for three-phase AC motor — at 200/208 V rated value 7.5 hp 	Full-load current (FLA) for three-phase AC motor	
Yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp		
 for single-phase AC motor — at 110/120 V rated value 1.5 hp — at 230 V rated value 3 hp for three-phase AC motor — at 200/208 V rated value 7.5 hp 		20 A
 — at 110/120 V rated value — at 230 V rated value • for three-phase AC motor — at 200/208 V rated value 7.5 hp 		
 — at 230 V rated value ● for three-phase AC motor — at 200/208 V rated value 7.5 hp 		
 for three-phase AC motor — at 200/208 V rated value 7.5 hp 		
— at 200/208 V rated value 7.5 hp		3 hp
	• for three-phase AC motor	
— at 220/230 V rated value 5 hp	— at 200/208 V rated value	7.5 hp
	— at 220/230 V rated value	5 hp

— at 460/480 V rated value	10 hp
— at 400/400 v rateu value	10 HP

Short-circuit protection	
Product function Short circuit protection	Yes
Design of the short-circuit trip	magnetic
Design of the fuse link for IT network for short-circuit protection of the main circuit	
● at 400 V	gG 63 A
● at 500 V	gG 50 A
● at 690 V	gG 50 A

nstallation/ mounting/ dimensions	
Mounting position	any
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
Height	97 mm
Width	45 mm
Depth	97 mm
Required spacing	
 with side-by-side mounting 	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— at the side	30 mm
— downwards	50 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	50 mm
— downwards	50 mm

Connections/Terminals	
Product function	
 removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
• for main current circuit	screw-type terminals

Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
• for main contacts	
— single or multi-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
 at AWG conductors 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 2
Design of the thread of the connection screw	
• for main contacts	M4
Safety related data	

Safety related data	
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	50 %
 with high demand rate acc. to SN 31920 	50 %
Failure rate [FIT]	
 with low demand rate acc. to SN 31920 	50 FIT
T1 value for proof test interval or service life acc. to IEC 61508	10 y
Display version	
• for switching status	Handle

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates

Marine / **Shipping**

KC





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Confirmation



Miscellaneous

Vibration and Shock

Further information

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2421-4BA10-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2421-4BA10-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2421-4BA10-0BA0

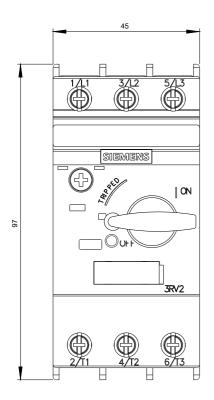
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

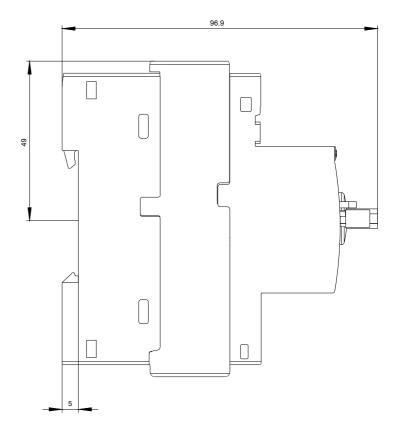
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2421-4BA10-0BA0&lang=en

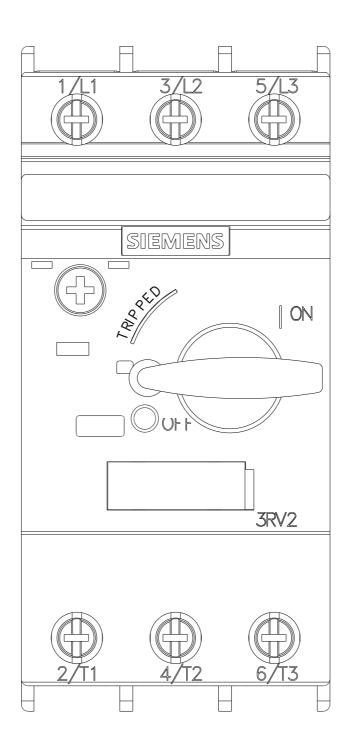
Characteristic: Tripping characteristics, I2t, Let-through current

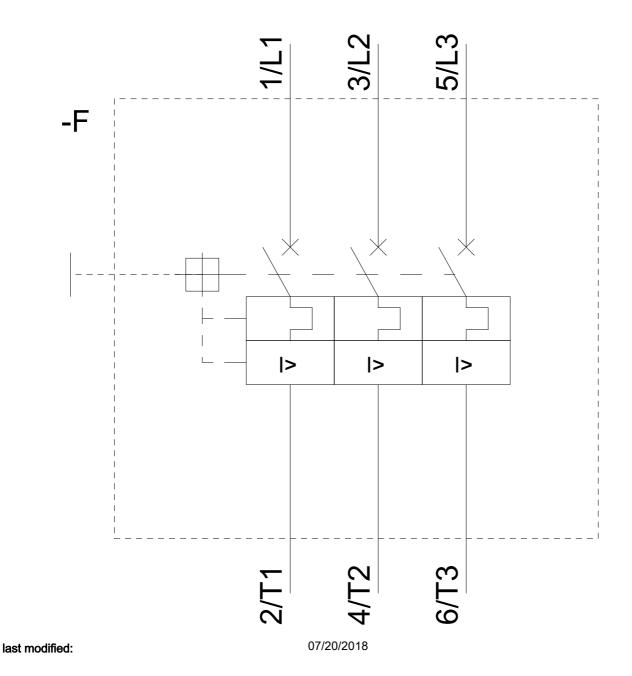
https://support.industry.siemens.com/cs/ww/en/ps/3RV2421-4BA10-0BA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2421-4BA10-0BA0&objecttype=14&gridview=view1









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