SIEMENS

Data sheet 3RT2535-1NP30



power contactor, AC-3, 35 A, 18.5 kW / 400 V, 4-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, main contacts: 2 NO + 2 NC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

product brand name	SIRIUS		
product designation	contactor		
product type designation	3RT25		
General technical data			
size of contactor	S2		
product extension			
 function module for communication 	No		
auxiliary switch	Yes		
power loss [W] for rated value of the current			
 at AC in hot operating state per pole 	2.2 W		
without load current share typical	2.4 W		
type of calculation of power loss depending on pole	quadratic		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	690 V		
 of auxiliary circuit with degree of pollution 3 rated value 	690 V		
surge voltage resistance			
 of main circuit rated value 	6 kV		
of auxiliary circuit rated value	6 kV		
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V		
shock resistance at rectangular impulse			
• at AC	7.7g / 5 ms, 4.5g / 10 ms		
• at DC	7.7g / 5 ms, 4.5g / 10 ms		
shock resistance with sine pulse			
• at AC	12g / 5 ms, 7g / 10 ms		
• at DC	12g / 5 ms, 7g / 10 ms		
mechanical service life (operating cycles)			
 of contactor typical 	10 000 000		
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000		
of the contactor with added auxiliary switch block typical	10 000 000		
reference code according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2014		
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8		
Weight	1.185 kg		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-40 +70 °C		
during storage	-55 +80 °C		

relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30	95 %		
maximum			
Main circuit			
number of poles for main current circuit	4		
number of NO contacts for main contacts	2		
number of NC contacts for main contacts	2		
operational current			
 at AC-1 up to 690 V 			
 — at ambient temperature 40 °C rated value 	60 A		
 at ambient temperature 60 °C rated value 	55 A		
 at AC-2 at AC-3 at 400 V 			
 per NO contact rated value 	35 A		
— per NC contact rated value	35 A		
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²		
operational current			
• at 1 current path at DC-1			
— at 24 V rated value	55 A		
— at 110 V rated value	4.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.4 A		
 with 2 current paths in series at DC-1 			
— at 24 V rated value	55 A		
— at 110 V rated value	45 A		
— at 220 V rated value	5 A		
— at 440 V rated value	1 A		
 at 1 current path at DC-3 at DC-5 			
 — at 24 V per NC contact rated value 	35 A		
 — at 24 V per NO contact rated value 	35 A		
 — at 110 V per NC contact rated value 	1.25 A		
 — at 110 V per NO contact rated value 	2.5 A		
 — at 220 V per NC contact rated value 	0.5 A		
 — at 220 V per NO contact rated value 	1 A		
 — at 440 V per NC contact rated value 	0.045 A		
 — at 440 V per NO contact rated value 	0.1 A		
 with 2 current paths in series at DC-3 at DC-5 			
 — at 24 V per NC contact rated value 	55 A		
 — at 24 V per NO contact rated value 	55 A		
— at 110 V per NC contact rated value	12.5 A		
— at 110 V per NO contact rated value	25 A		
— at 220 V per NC contact rated value	2.5 A		
— at 220 V per NO contact rated value	5 A		
— at 440 V per NC contact rated value	0.135 A		
— at 440 V per NO contact rated value	0.27 A		
operating power at AC-2 at AC-3	11 kW		
at 230 V per NC contact rated value at 230 V per NC contact rated value	11 kW		
 at 230 V per NO contact rated value at 400 V per NC contact rated value 	11 KW 18.5 kW		
at 400 V per NC contact rated value at 400 V per NO contact rated value	18.5 kW		
short-time withstand current in cold operating state up to			
40 °C			
 limited to 1 s switching at zero current maximum 	546 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	443 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	334 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value		
limited to 60 s switching at zero current maximum	196 A; Use minimum cross-section acc. to AC-1 rated value		
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor	2.2 W		
power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor	2.2 W		
no-load switching frequency			

	• at AC	500 1/h
operating frequency * st AC-C maximum Control circuit Control Type of voltage of the control supply voltage ACDC * of 50 Hz rated value * at 50 Hz rated value * at 50 Hz rated value * operating range factor control supply voltage rated value of magnet coil at DC * inflish voltage * at 50 Hz * at 60 Hz		
# AC-1 maximum Special Control Control Type of Voltage of the control supply voltage ACDC		300 I/II
Control circuit/ Control Type of voltage of the control supply voltage * at 00 Hz rated value		350 1/h
Type of voltage of the control supply voltage AC DC		
Control supply voltage at AC at 50 Hz rated value to 175 280 V at 60 Hz rated value to 175 280 V at 60 Hz rated value operating range factor control supply voltage rated value of magnet coll at DC initial value subtraction of the surge suppressor at 60 Hz at		AC/DC
		NOIDO
		175 280 V
Control supply voltage at DC rated value 175 280 V		
Operating range factor control supply voltage rated value of magnet coil at DC		
migrate coll at DC • Initial value 0.8 • Initial value 1.1 operating range factor control supply voltage rated value of magnet coll at AC 0.8 1.1 • at 50 Hz 0.8 1.1 • design of the surge suppressor with variator Intrush current peak 25 A duration of inceled-rotor current peak 10 µs locked-rotor current peak 1.5 A duration of locked-rotor current 230 ms holding current mean value 0.8 % A locked-rotor current peak 1.5 A duration of locked-rotor current 230 ms holding current mean value 10 mA apparent plck-up power of magnet coll at AC 110 VA • at 50 Hz 110 VA • at 50 Hz 0.95 • at 50 Hz 0.95 • at 50 Hz 0.95 • at 50 Hz 2.5 VA • at 50 Hz 2.5 VA • at 60 Hz 0.95 • at 80 Hz <td></td> <td></td>		
e full-scale value operating range factor control supply voltage rated value of magnet coil at AC e at 50 Hz at 60 Hz observed by the surge suppressor with variation innush current peak clocked-rotor current peak locked-rotor current peak duration of innush current peak full by the control current peak duration of locked-rotor current peak full by the control current peak duration of locked-rotor current peak full by the control current peak full by the current peak full		
operating range factor control supply voltage rated value of magnet coil at AC	• initial value	
### als 0 Hz		1.1
• at 50 Hz		
e at 60 Hz design of the surge suppressor inrush current peak 25 A duration of inrush current peak 10 µs locked-rotor current mean value 0.58 A locked-rotor current peak 1.5 A duration of locked-rotor current 230 ms holding current mean value 110 mA apparent pick-up power of magnet coil at AC 110 VA 110 VA 110 VA 14 50 Hz 110 VA 110 VA 110 VA 14 50 Hz 110 VA 110 VA 14 50 Hz 110 VA 15 NA 15 NA 16 NA 16 NA 16 NA 17 NA 18 NA		0.8 1.1
design of the surge suppressor with varistor inrush current peak 25 A duration of frush current peak 10 µs locked-rotor current mean value 0.58 A locked-rotor current mean value 0.58 A locked-rotor current peak 1.5 A duration of locked-rotor current 230 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC 110 VA at 30 Hz 110 VA at 460 Hz 110 VA at 460 Hz 110 VA at 460 Hz 0.95 at 60 Hz 0.95 at		
Iniush current peak		
duration of inrush current peak 10 µs locked-rotor current mean value 0.58 A locked-rotor current mean value 1.5 A duration of locked-rotor current 230 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC 110 VA at 50 Hz 110 VA at 60 Hz 110 VA inductive power factor with closing power of the coil 0.95 at 50 Hz 0.95 at 50 Hz 0.95 apparent holding power of magnet coil at AC 2.5 VA at 60 Hz 0.95 apparent holding power of magnet coil at AC 2.5 VA at 60 Hz 2.5 VA at 60 Hz 0.95 at 6		
locked-rotor current mean value 0.58 A locked-rotor current peak 1.5 A duration of locked-rotor current 230 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC 110 VA a 150 Hz 110 VA a 160 Hz 110 VA inductive power factor with closing power of the coil 0.95 a 160 Hz	·	
duration of locked-rotor current 230 ms holding current mean value 10 mA apparent pick-up power of magnet coil at AC 110 VA a tt 50 Hz 110 VA 110 VA a tt 60 Hz 110 VA 110 VA a tt 60 Hz 10.95 10.95 a tt 50 Hz 0.95 a tt 60 Hz 0.95 a tt 60 Hz 0.95 apparent holding power of magnet coil at AC 2.5 VA a tt 60 Hz 2.5 VA 2.5 VA a tt 60 Hz 0.95 a tt 50 Hz 0.95 a tt 50 Hz 0.95 a tt 50 Hz 0.95 a tt 60 Hz 0.95	locked-rotor current mean value	0.58 A
holding current mean value 10 mA	locked-rotor current peak	1.5 A
apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 60 Hz at 60 Hz • at 50 Hz • at 50 Hz • at 50 Hz • at 60 Hz • at 50 Hz • at 60 Hz • at	duration of locked-rotor current	230 ms
	holding current mean value	10 mA
	apparent pick-up power of magnet coil at AC	110 VA
inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz but at 50 Hz closing power of magnet coil at DC closing power of magnet coil at DC tolosing power of magnet coil at DC at AC at AC at DC at DC at DC at DC at DC but DC copening delay at AC at DC a	● at 50 Hz	110 VA
	● at 60 Hz	110 VA
apparent holding power of magnet coil at AC at 50 Hz at 60 Hz 2.5 VA at 60 Hz 2.5 VA inductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.95 inductive power factor with the holding power of the coil at 60 Hz 0.95 closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay at AC at DC opening delay at AC at DC at DC arcing time control version of the switch operating mechanism control version of the switch operating mechanism residual current of the electronics for control with signal <0- control version of the control version of the control version of the control version of the operating mechanism at AC at 230 V maximum permissible at AC at 230 V maximum permissible at AC at 230 V maximum permissible 10 Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value		
apparent holding power of magnet coil at AC at 50 Hz at 60 Hz binductive power factor with the holding power of the coil at 50 Hz at 60 Hz 0.95 at 60 Hz 0.95 closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay at AC at DC opening delay at AC at DC opening delay at AC at DC at D		
■ at 50 Hz ■ at 60 Hz ■ at 60 Hz ■ at 50 Hz ■ at 50 Hz ■ at 50 Hz ■ at 50 Hz ■ at 60 Hz □ at 60 Hz □ at 60 Hz □ at 60 Hz □ at 60 Hz □ at 60 Hz □ at AC □ at DC □ at AC □ at DC □ at AC □ at DC □ at AC □ at A		
at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 50 Hz operational round in the holding power of the coil at 60 Hz operational current at AC-12 maximum operational current at AC-15 at 60 Hz 2.5 VA 1.9 VA 0.95 0.95 0.95 70 W no.95 70 W no.95 70 W no.96 70 W 1.5 W closing power of magnet coil at DC 1.5 W closing delay at AC 30 110 ms 30 110 ms opening delay at AC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism residual current of the electronics for control with signal cos at AC at 230 V maximum permissible 20 A Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value		
inductive power factor with the holding power of the coil at 50 Hz at 60 Hz o.95 O.95 closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay at AC at DC opening delay at AC at DC oring delay oring delay at AC at DC oring delay orin		
at 50 Hz at 60 Hz bolding power of magnet coil at DC bolding power of magnet coil at DC 1.5 W closing delay at AC at DC opening delay at AC at DC arcing time control version of the switch operating mechanism control version of the electronics for control with signal corrent of the electronics for control with signal corrent of the control version of the switch operating mechanism UC residual current of the electronics for control with signal control version of the switch operating mechanism control version of the switch operating mechanism UC residual current of the electronics for control with signal control version of the switch operating mechanism UC at AC at 230 V maximum permissible 20 A Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-12 maximum 10 A operational current at AC-15 at 230 V rated value 4 AU 0 V rated value 5 A 4 AU 0 V rated value 7 A 7 A 7 A 7 A 7 A 7 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8 A 8		
at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at AC at DC arcing time control version of the switch operating mechanism control version of the electronics for control with signal at AC at 230 V maximum permissible at DC at 24 V maximum permissible number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum 10 A operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value		
closing power of magnet coil at DC holding power of magnet coil at DC 1.5 W closing delay • at AC • at DC opening delay • at AC • at DC account of the switch operating mechanism control version of the switch operating mechanism control version of the electronics for control with signal • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible • at DC at 24 V maximum permissible contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value		
holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC opening delay at AC at DC other act DC at DC		
closing delay • at AC • at DC 30 110 ms opening delay • at AC • at DC 30 55 ms • at DC 30 55 ms • at DC 30 55 ms control version of the switch operating mechanism control version of the switch operating mechanism residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible 20 A Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value		
at AC at DC at DC at AC at DC at AC at DC at AC at DC at DC at AC at DC at AC at DC at AC at DC at AC at Control version of the switch operating mechanism control version of the electronics for control with signal at AC at 230 V maximum permissible at AC at 230 V maximum permissible at DC at 24 V maximum permissible at DC at 24 V maximum permissible at DC at 24 V maximum permissible at DC at Contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at AC accuracy at AC accur		
at DC opening delay at AC at DC ot		30 110 ms
opening delay • at AC • at DC 30 55 ms arcing time 10 20 ms control version of the switch operating mechanism UC residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible 20 A Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum 10 A operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value		
 at AC at DC arcing time control version of the switch operating mechanism residual current of the electronics for control with signal at AC at 230 V maximum permissible at DC at 24 V maximum permissible at DC at 24 V maximum permissible auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value at 500 V rated value 		
arcing time control version of the switch operating mechanism residual current of the electronics for control with signal <0> at AC at 230 V maximum permissible at DC at 24 V maximum permissible number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value 20 A 20 A 1 10 A 6 A 3 A 4 400 V rated value 3 A 4 400 V rated value 2 A		30 55 ms
control version of the switch operating mechanism residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible 20 A Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value 20 A 20 A 20 A 21 A 20	• at DC	30 55 ms
residual current of the electronics for control with signal <0> • at AC at 230 V maximum permissible • at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value 20 A 1 10 A 6 A 9 A 9 A 9 A 9 A 9 A 9 A 9	arcing time	10 20 ms
at AC at 230 V maximum permissible at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value at 500 V rated value 20 A 10 A 10 A	control version of the switch operating mechanism	UC
 at DC at 24 V maximum permissible Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value at 500 V rated value 		
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 500 V rated value 2 A	• at AC at 230 V maximum permissible	20 A
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value 2 A	• at DC at 24 V maximum permissible	20 A
contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value 2 A	Auxiliary circuit	
contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value 2 A		1
operational current at AC-15 • at 230 V rated value 6 A • at 400 V rated value 3 A • at 500 V rated value 2 A		1
 at 230 V rated value at 400 V rated value at 500 V rated value 2 A 	operational current at AC-12 maximum	10 A
 at 400 V rated value at 500 V rated value 2 A 	operational current at AC-15	
• at 500 V rated value 2 A	• at 230 V rated value	6 A
	• at 400 V rated value	3 A
a of COO V rested value		2 A
• at 090 v rated value	• at 690 V rated value	1 A

operational current at DC-12			
at 24 V rated value	10 A		
at 48 V rated value	6 A		
at 60 V rated value	6 A		
• at 110 V rated value	3 A		
• at 125 V rated value	2 A		
• at 220 V rated value	1 A		
at 600 V rated value	0.15 A		
operational current at DC-13			
at 24 V rated value	10 A		
at 48 V rated value	2 A		
at 60 V rated value	2 A		
at 110 V rated value	1 A		
at 125 V rated value	0.9 A		
• at 220 V rated value	0.3 A		
at 600 V rated value	0.1 A		
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
UL/CSA ratings			
yielded mechanical performance [hp]			
• for 3-phase AC motor at 460/480 V rated value	20 hp		
contact rating of auxiliary contacts according to UL	A600 / P600		
Short-circuit protection			
design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V	C characteristic: 10 A; 0.4 kA		
design of the fuse link			
 for short-circuit protection of the main circuit 			
 — with type of coordination 1 required 	gG: 125 A (690 V, 100 kA)		
 — with type of assignment 2 required 	gG: 63 A (690 V,100 kA)		
Installation/ mounting/ dimensions			
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and		
	backward by +/- 22.5° on vertical mounting surface		
fastening method side-by-side mounting	Yes		
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022		
height	114 mm		
width	75 mm		
depth	130 mm		
required spacing			
with side-by-side mounting	0.000		
— forwards	0 mm		
b a day and a			
— backwards	0 mm		
— upwards	0 mm 0 mm		
— upwards — downwards	0 mm 0 mm 0 mm		
— upwards— downwards— at the side	0 mm 0 mm		
— upwards— downwards— at the side• for grounded parts	0 mm 0 mm 0 mm 0 mm		
— upwards— downwards— at the side• for grounded parts— forwards	0 mm 0 mm 0 mm 0 mm		
 — upwards — downwards — at the side • for grounded parts — forwards — backwards 	0 mm 0 mm 0 mm 0 mm 0 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 10 mm		
 — upwards — downwards — at the side • for grounded parts — forwards — backwards — upwards — at the side — downwards 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 10 mm 10 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards 	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards 	0 mm 50 mm 10 mm 50 mm 0 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards downwards 	0 mm 50 mm 10 mm 50 mm 0 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards upwards at the side downwards for live parts forwards backwards upwards downwards at the side 	0 mm 50 mm 10 mm 50 mm 0 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards at the side downwards at the side at the side downwards at the side 	0 mm 50 mm 10 mm 50 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards downwards at the side downwards abackwards upwards downwards at the side Connections/ Terminals type of electrical connection	0 mm 0 mm 0 mm 0 mm 0 mm 0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm 10 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards downwards at the side downwards abackwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit 	0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards downwards at the side downwards abackwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit 	0 mm 50 mm 10 mm 50 mm 10 mm 50 mm 10 mm 50 mm 50 mm 50 mm		
 upwards downwards at the side for grounded parts forwards backwards upwards at the side downwards for live parts forwards backwards upwards downwards at the side downwards ackwards upwards downwards at the side Connections/ Terminals type of electrical connection for main current circuit 	0 mm 50 mm 10 mm 50 mm 0 mm 50 mm 10 mm 50 mm 50 mm		

type of connectable conductor cross-sections for main contacts 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) solid or stranded 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) • finely stranded with core end processing 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) AWG number as coded connectable conductor cross section for 18 ... 1 main contacts Safety related data product function • mirror contact according to IEC 60947-4-1 Yes • positively driven operation according to IEC 60947-5-1 No **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 Approvals Certificates

General Product Approval









KC



EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certific-







Marine / Shipping other Railway









Confirmation

Special Test Certificate

Environment

Environmental Confirmations

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=3RT2535-1NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2535-1NP30

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

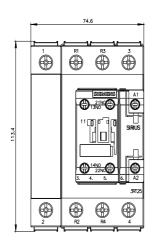
https://support.industry.siemens.com/cs/ww/en/ps/3RT2535

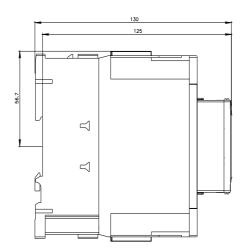
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

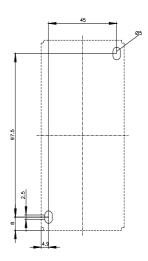
http://www.automation.siemens.com/bilddb/cax_de.aspx?r

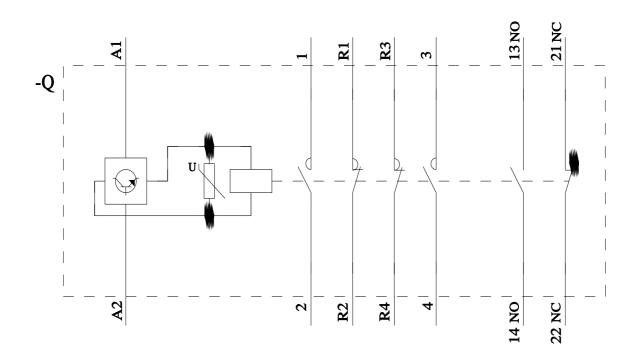
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2535-1NP30/char

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









last modified: 4/11/2025 🖸

3RT25 Page 7	 NP3	0