3RT2036-1CL24-3MA0

Data sheet



power contactor, AC-3e/AC-3, 51 A, 22 kW / 400 V, 3-pole, 230 V AC, 50/60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

product brand name	SIRIUS	
product designation	Power contactor	
product type designation	3RT2	
General technical data		
size of contactor	S2	
product extension		
 function module for communication 	No	
auxiliary switch	No	
power loss [W] for rated value of the current		
 at AC in hot operating state 	12 W	
 at AC in hot operating state per pole 	4 W	
without load current share typical	17.2 W	
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	9.8g / 5 ms, 6.5g / 10 ms	
shock resistance with sine pulse		
• at AC	15.3g / 5 ms, 10.1g / 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	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
 during operation 	-25 +60 °C	
during storage	-55 +80 °C	
relative humidity minimum	10 %	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %	
Main circuit		
number of poles for main current circuit	3	

number of NO contacts for main contacts	3		
operating voltage			
 at AC-3 rated value maximum 	690 V		
at AC-3e rated value maximum	690 V		
operational current			
 at AC-1 at 400 V at ambient temperature 40 °C rated 	70 A		
value			
• at AC-1			
 up to 690 V at ambient temperature 40 °C rated value 	70 A		
— up to 690 V at ambient temperature 60 °C rated	60 A		
value			
• at AC-3			
— at 400 V rated value	51 A		
— at 500 V rated value	51 A		
— at 690 V rated value	24 A		
• at AC-3e			
— at 400 V rated value	51 A		
— at 500 V rated value	51 A		
— at 690 V rated value	24 A		
• at AC-4 at 400 V rated value	41 A		
• at AC-5a up to 690 V rated value	61.6 A		
• at AC-5b up to 400 V rated value	41.5 A		
• at AC-6a			
— up to 230 V for current peak value n=20 rated value	43.2 A		
— up to 400 V for current peak value n=20 rated value	43.2 A		
— up to 500 V for current peak value n=20 rated value	43.2 A		
— up to 690 V for current peak value n=20 rated value	24 A		
• at AC-6a			
— up to 230 V for current peak value n=30 rated value	28.8 A		
— up to 400 V for current peak value n=30 rated value	28.8 A		
— up to 500 V for current peak value n=30 rated value	28.8 A		
— up to 690 V for current peak value n=30 rated value	24 A		
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²		
operational current for approx. 200000 operating cycles at			
AC-4	24.0		
• at 400 V rated value	24 A		
at 690 V rated value	20 A		
operational current			
at 1 current path at DC-1 at 0.4 Verta during	55.4		
— at 24 V rated value	55 A		
— at 60 V rated value	23 A		
— at 110 V rated value	4.5 A		
— at 220 V rated value	1 A		
— at 440 V rated value	0.4 A		
— at 600 V rated value	0.25 A		
with 2 current paths in series at DC-1 at 24 Verted value.	EE A		
— at 24 V rated value	55 A		
— at 60 V rated value	45 A		
— at 110 V rated value	45 A		
— at 220 V rated value	5 A		
— at 440 V rated value	1 A		
— at 600 V rated value	0.8 A		
with 3 current paths in series at DC-1			
— at 24 V rated value	55 A		
— at 60 V rated value	55 A		
— at 110 V rated value	55 A		
— at 220 V rated value	45 A		
— at 440 V rated value	2.9 A		
— at 600 V rated value	1.4 A		
• at 1 current path at DC-3 at DC-5			

	— at 24 V rated value	35 A		
	— at 60 V rated value	6 A		
	— at 220 V rated value	1 A		
- with 2 current paths in series at DC-3 at DC-5 - at 24 V raied value - at 20 V raied value - at 60 V raied value - at 60 V raied value - at 60 V raied value - with 3 current paths in series at DC-3 at DC-5 - at 24 V raied value - with 3 current paths in series at DC-3 at DC-5 - at 20 V raied value - at 10 V raied value - at 25 A - at 20 V raied value - at 460 V raied value - at 600 V raied value - at 600 V raied value - at 20 V raied value - at 600 V raied value	— at 440 V rated value	0.1 A		
	— at 600 V rated value	0.06 A		
	 with 2 current paths in series at DC-3 at DC-5 			
	— at 24 V rated value	55 A		
	— at 60 V rated value			
	— at 110 V rated value	25 A		
		5 A		
- with 3 current paths in series at DC-3 at DC-5 - at 24 V Tated value - at 10 V Tated value - at 11 10 V Tated value - at 22 V Tated value - at 22 V Tated value - at 440 V Tated value - at 440 V Tated value - at 600 V Tated value - at 400 V Tated value - at 600 V Tated valu				
		0.10 A		
		EE A		
O.35 A				
Operating power at AC-2 at 400 V rated value 22 kW at AC-3 at AC-2 at 400 V rated value 15 kW at AC-3 at 500 V rated value 22 kW at 400 V rated value 22 kW at 500 V rated value 20 rated value 23 kW at 500 V rated value 24 kW at 500 V rated value 24 kW at 500 V rated value 25 kW at 500 V rated value				
• at AC-2 at 400 V rated value • at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 600 V rated value — at 600 V rated value • at AC-3e — at 400 V rated value — at 500 V rated value — at 600 V for current peak value n=20 rated value — up to 200 V for current peak value n=20 rated value — up to 600 V for current peak value n=20 rated value — up to 500 V for current peak value n=30 rated value — up to 500 V for current	— at 600 V rated value	0.35 A		
- at 230 V rated value	operating power			
	• at AC-2 at 400 V rated value	22 kW		
at 400 V rated value	• at AC-3			
at 500 V rated value at 690 V rated value 22 kW at 690 V rated value at 600 V rated value at 500 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 690 V rated value 20 rated value	— at 230 V rated value	15 kW		
at AG-3e — at 400 V rated value — at 500 V rated value — at 690 V rated value 22 kW operating power for approx. 200000 operating cycles at AC- 4 * at 400 V rated value	— at 400 V rated value	22 kW		
at AC-3e — at 400 V rated value — at 590 V rated value 22 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 12.6 kW 13.2 kW operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 230 V for current peak value n=20 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 32.6 kVA 11.4 kVA 19.9 kVA 24.9 kVA 25.6 kVA short-time withstand current in cold operating state up to 40 °C Ilmited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 10 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero current maximum ilmited to 60 s switching at zero curr	— at 500 V rated value	30 kW		
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• up to 500 V for current peak value n=30 rated value • up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at AC • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-3 e maximum • at AC-4 maximum • at AC-5 control circuit/ Control				
• up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum olia d AC-1 rated value 282 A; Use minimum cross-section acc. to AC-1 rated value 282 A; Use minimum cross-section acc. to AC-1 rated value 282 A; Use minimum cross-section acc. to AC-1 rated value 283 A; Use minimum cross-section acc. to AC-1 rated value 284 A; Use minimum cross-section acc. to AC-1 rated value 285 A; Use minimum cross-section acc. to AC-1 rated value 286 A; Use minimum cross-section acc. to AC-1 rated value 287 A; Use minimum cross-section acc. to AC-1 rated value 288 A; Use minimum cross-section acc. to AC-1 rated value 289 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated value 290 A; Use minimum cross-section acc. to AC-1 rated				
short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum 282 A; Use minimum cross-section acc. to AC-1 rated value 229 A; Use minimum cross-section acc. to AC-1 rated value 229 A; Use minimum cross-section acc. to AC-1 rated value 1000 1/h	·			
40 °C		20.0 KVA		
 limited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 40 AC-1 rated value limite				
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-50 I/h 		937 A: Use minimum cross-section acc. to ΔC-1 rated value		
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC at AC at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maximum at AC-9 maximum at AC-1 maximum at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 maximum at AC-5 maximum at AC-6 maximum at AC-7 maximum at AC-8 maximum at AC-9 maxi	-			
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum 282 A; Use minimum cross-section acc. to AC-1 rated value 200 1/h 5 000 1/h 600 1/h 800 1/h 250 1/h Control circuit/ Control	-			
Ilimited to 60 s switching at zero current maximum no-load switching frequency at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum at AC-4 maximum control circuit/ Control	-			
no-load switching frequency 5 000 1/h operating frequency 1 000 1/h • at AC-1 maximum 600 1/h • at AC-3 maximum 800 1/h • at AC-3e maximum 800 1/h • at AC-4 maximum 250 1/h Control circuit/ Control	-			
● at AC operating frequency ● at AC-1 maximum ● at AC-2 maximum ● at AC-3 maximum ● at AC-3 maximum ● at AC-3e maximum ● at AC-4 maximum ● at AC-4 maximum Control circuit/ Control		229 A, USE MINIMUM Cross-section acc. to AC-1 rated value		
operating frequency • at AC-1 maximum 1 000 1/h • at AC-2 maximum 600 1/h • at AC-3 maximum 800 1/h • at AC-3e maximum 800 1/h • at AC-4 maximum 250 1/h Control circuit/ Control		5 000 A/L		
 at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control		5 UUU 1/N		
 at AC-2 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control				
 at AC-3 maximum at AC-3e maximum at AC-4 maximum 250 1/h Control circuit/ Control				
 at AC-3e maximum at AC-4 maximum Control circuit/ Control 	• at AC-2 maximum	600 1/h		
• at AC-4 maximum Control circuit/ Control	• at AC-3 maximum	800 1/h		
Control circuit/ Control	• at AC-3e maximum	800 1/h		
	• at AC-4 maximum	250 1/h		
type of voltage of the control supply voltage AC	Control circuit/ Control			
	type of voltage of the control supply voltage	AC		

control supply voltage at AC			
at 50 Hz rated value	230 V		
at 60 Hz rated value	230 V		
operating range factor control supply voltage rated value of magnet coil at AC			
● at 50 Hz	0.8 1.1		
• at 60 Hz	0.85 1.1		
design of the surge suppressor	with varistor		
apparent pick-up power of magnet coil at AC			
● at 50 Hz	210 VA		
● at 60 Hz	188 VA		
inductive power factor with closing power of the coil			
• at 50 Hz	0.69		
● at 60 Hz	0.65		
apparent holding power of magnet coil at AC			
● at 50 Hz	17.2 VA		
● at 60 Hz	16.5 VA		
inductive power factor with the holding power of the coil			
● at 50 Hz	0.36		
● at 60 Hz	0.39		
closing delay			
• at AC	10 80 ms		
opening delay			
• at AC	10 18 ms		
arcing time	10 20 ms		
control version of the switch operating mechanism	Standard A1 - A2		
Auxiliary circuit			
number of NC contacts for auxiliary contacts instantaneous contact	2		
number of NO contacts for auxiliary contacts instantaneous contact	2		
operational current at AC-12 maximum	10 A		
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		
at 690 V rated value	1 A		
operational current at DC-12			
• at 24 V rated value	10 A		
at 24 V rated valueat 48 V rated value	6 A		
at 24 V rated valueat 48 V rated valueat 60 V rated value	6 A 6 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value 	6 A 6 A 3 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 	6 A 6 A 3 A 2 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value 	6 A 6 A 3 A 2 A 1 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 220 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts UL/CSA ratings full-load current (FLA) for 3-phase AC motor 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 120 V rated value at 200 V rated value at 200 V rated value at 480 V rated value at 480 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		
 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value 	6 A 6 A 3 A 2 A 1 A 0.15 A 6 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)		

— at 230 V rated value	10 hp	
• for 3-phase AC motor		
— at 200/208 V rated value	15 hp	
— at 220/230 V rated value	15 hp	
— at 460/480 V rated value	40 hp	
— at 575/600 V rated value	50 hp	
contact rating of auxiliary contacts according to UL	A600 / Q600	
Short-circuit protection		
design of the fuse link		
 for short-circuit protection of the main circuit 		
 — with type of coordination 1 required 	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)	
— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)	
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)	
Installation/ mounting/ dimensions	90. 10 A (000 V, 1 kA)	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and	
mounting position	backward by +/- 22.5° on vertical mounting surface	
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715	
• side-by-side mounting	Yes	
height	114 mm	
width	55 mm	
depth	174 mm	
required spacing		
with side-by-side mounting		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	0 mm	
for grounded parts		
— forwards	10 mm	
— upwards	10 mm	
— at the side	6 mm	
— downwards	10 mm	
• for live parts		
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection		
for main current circuit	screw-type terminals	
for auxiliary and control circuit	screw-type terminals	
at contactor for auxiliary contacts	Screw-type terminals	
of magnet coil	Screw-type terminals	
type of connectable conductor cross-sections for main contacts		
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)	
connectable conductor cross-section for main contacts	(20),(30)	
• finely stranded with core end processing	1 35 mm²	
connectable conductor cross-section for auxiliary contacts		
solid or stranded	0.5 2.5 mm²	
finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
• for auxiliary contacts		
— 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	ZA (20 10), ZA (10 17)	
for main contacts	18 1	
for auxiliary contacts	20 14	
- 101 daxillary contacto		

Safety related data		
product function		
 mirror contact according to IEC 60947-4-1 	Yes	
 positively driven operation according to IEC 60947-5-1 	No	
B10 value with high demand rate according to SN 31920	1 000 000	
proportion of dangerous failures		
 with low demand rate according to SN 31920 	40 %	
 with high demand rate according to SN 31920 	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 a	
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	
suitability for use		
 safety-related switching OFF 	Yes	

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC	Functional Safety/Safety of Ma- chinery	Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation

Confirmation

Vibration and Shock

Transport Information

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)

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1CL24-3MA0

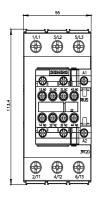
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

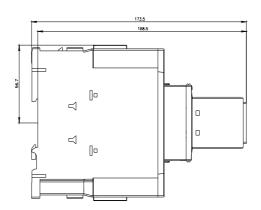
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1CL24-3MA0

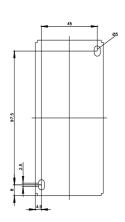
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

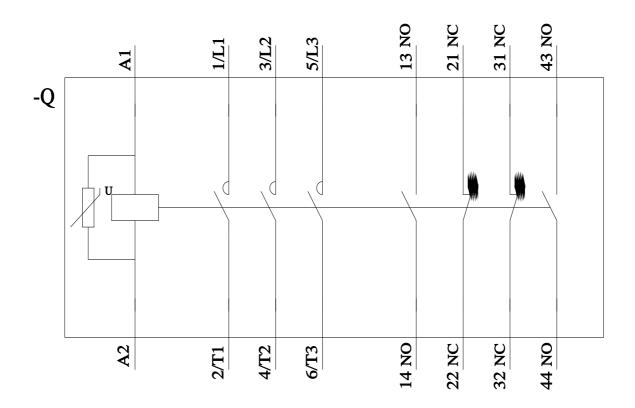
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1CL24-3MA0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current









last modified: 2/10/2023 🖸