SIEMENS

Data sheet 3RT1064-6AP36

SIRIUS





power contactor, AC-3e/AC-3 225 A, 110 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



product brand name	SINIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S10
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 	51 W
 at AC in hot operating state per pole 	17 W
 without load current share typical 	7.4 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	1 000 V
 of auxiliary circuit with degree of pollution 3 rated value 	500 V
surge voltage resistance	
 of main circuit rated value 	8 kV
 of auxiliary circuit rated value 	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V
shock resistance at rectangular impulse	
• at AC	8,5g / 5 ms, 4,2g / 10 ms
• at DC	8,5g / 5 ms, 4,2g / 10 ms
shock resistance with sine pulse	
• at AC	13,4g / 5 ms, 6,5g / 10 ms
• at DC	13,4g / 5 ms, 6,5g / 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)	05/01/2012
SVHC substance name	Lead - 7439-92-1
Weight	6.436 kg
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 %
Environmental footprint	
Environmental Product Declaration(EPD)	Yes
global warming potential [CO2 eq] total	548 kg
global warming potential [CO2 eq] during manufacturing	31.5 kg
global warming potential [CO2 eq] during sales	2.6 kg
global warming potential [CO2 eq] during operation	521 kg
global warming potential [CO2 eq] after end of life	-7.22 kg
Siemens Eco Profile (SEP)	Siemens EcoTech
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	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	275 A
• at AC-1	275 A
 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated 	250 A
value — up to 1000 V at ambient temperature 40 °C rated	100 A
value — up to 1000 V at ambient temperature 40 °C rated	100 A
value • at AC-3	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
• at AC-3e	
— at 400 V rated value	225 A
— at 500 V rated value	225 A
— at 690 V rated value	225 A
— at 1000 V rated value	68 A
 at AC-4 at 400 V rated value 	195 A
• at AC-5a up to 690 V rated value	242 A
● at AC-5b up to 400 V rated value	186 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	225 A
— up to 400 V for current peak value n=20 rated value	225 A
— up to 500 V for current peak value n=20 rated value	225 A
— up to 690 V for current peak value n=20 rated value	225 A
— up to 1000 V for current peak value n=20 rated value	68 A
• at AC-6a	170 A
— up to 230 V for current peak value n=30 rated value	172 A
— up to 400 V for current peak value n=30 rated value	172 A 172 A
 up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	172 A
up to 690 V for current peak value n=30 rated up to 1000 V for current peak value n=30 rated value	68 A
minimum cross-section in main circuit at maximum AC-1 rated value	150 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	96 A

operational current	a at 600 V rated value	95 A
a 15 Current path at DC-1	at 690 V rated value	85 A
	-	
	-	200 A
■ all 500 V rated value		
		0.5 A
	•	
at 110 V rated value 20 A 20 A 20 A 32 A 41		
at 440 V rated value		
■ with 3 current paths in series at DC-1 — at 24 V rated value 200 A — at 10 V rated value 200 A — at 1110 V rated value 200 A — at 1220 V rated value 200 A — at 440 V rated value 11 A — at 60 V rated value 4 A • at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value 0.6 A — at 40 V rated value 0.17 A — at 40 V rated value 0.17 A — at 40 V rated value 0.12 A • with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 600 V rated value 200 A — at 80 V rated value 200 A — at 140 V rated value 200 A — at 140 V rated value 2.5 A — at 220 V rated value 2.5 A — at 440 V rated value 0.85 A — at 80 V rated value 2.00 A — at 100 V rated value 2.00 A — at 220 V rated value 2.00 A — at 220 V rated value 2.00 A — at 220 V rated value 2.00 A		
with 3 current paths in series at DC-1 — at 62 V Trated value		
		1.6 A
	•	
• at 1 current path at DC-3 at DC-5 -at 24 V rated value -at 60 V rated value -at 60 V rated value -at 60 V rated value -at 40 V rated value -at 40 V rated value -at 40 V rated value -at 600 V rated value • with 2 current paths in series at DC-3 at DC-5 -at 24 V rated value -at 100 V rated value -at 220 V rated value -at 60 V v rated value -at 60 V r		
• at 1 current path at DC-3 at DC-5 — at 24 V rated value — at 80 V rated value — at 80 V rated value — at 220 V rated value — at 220 V rated value — at 800 V		
at 24 V rated value 7.5 A 7		4 A
at 220 V rated value	• at 1 current path at DC-3 at DC-5	
at 220 V rated value	— at 24 V rated value	200 A
at 440 V rated value	— at 60 V rated value	7.5 A
■ with 2 current paths in series at DC-3 at DC-5 ■ at 24 V rated value ■ at 60 V rated value ■ at 60 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 440 V rated value ■ at 600 V rated value ■ at 60 V rated value ■ at 40 V rated value ■ at 600 V rated value ■ at 200 V rated value ■ at 200 V rated value ■ at 200 V rated value ■ at 400 V rated value ■ at 400 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 600 V rated value ■ at 700 V rated value ■ at 1000 V rated value ■ at 1000 V rated value ■ at 400 V rated value	— at 220 V rated value	0.6 A
• with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 200 A — at 110 V rated value 200 A — at 110 V rated value 2.5 A — at 220 V rated value 0.65 A — at 440 V rated value 0.65 A — at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value 200 A — at 60 V rated value 200 A — at 60 V rated value 200 A — at 60 V rated value 200 A — at 110 V rated value 200 A — at 120 V rated value 200 A — at 20 V rated value 200 A — at 20 V rated value 200 A — at 440 V rated value 200 A — at 440 V rated value 200 A — at 4500 V rated value 55 kW — at 500 V rated value 110 kW — at 500 V rated value 110 kW — at 500 V rated value 200 kW — at 1000 V rated value 90 kW • at AC-3 — at 230 V rated value 90 kW • at AC-3 — at 230 V rated value 90 kW • at 500 V rated value 90 kW • at 400 V rated value 106 kW — at 500 V rated value 106 kW — at 500 V rated value 90 kW • at 400 V rated value 100 kW — at 1000 V rated value 100 kW — at 500 V rated value 100 kW — at 400 V rated value 100 kW — at 400 V rated value 90 kW • at 400 V rated value 90 kW	— at 440 V rated value	0.17 A
at 24 V rated value 200 A at 60 V rated value 200 A at 110 V rated value 200 A at 220 V rated value 2.5 A at 440 V rated value 0.65 A at 600 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 at 24 V rated value 200 A at 600 V rated value 200 A at 60 V rated value 200 A at 110 V rated value 200 A at 110 V rated value 200 A at 440 V rated value 200 A at 440 V rated value 200 A at 420 V rated value 200 A at 430 V rated value 200 A at 440 V rated value 200 A at 450 V rated value 1.4 A at 600 V rated value 200 A at 430 V rated value 1.5 kW at 400 V rated value 10 kW at 400 V rated value 100 kW at 690 V rated value 200 kW at 1000 V rated value 90 kW at 400 V rated value 55 kW at 400 V rated value 100 kW at 690 V rated value 200 kW at 690 V rated value 100 kW at 690 V rated value 100 kW at 690 V rated value 200 kW at 690 V rated value 100 kW at 690 V rated value 100 kW at 690 V rated value 200 kW at 690 V rated value 55 kW at 400 V rated value 200 kW at 690 V rated value 55 kW at 400 V rated value 500 kW at 690 V rated value 500 kW	— at 600 V rated value	0.12 A
- at 60 V rated value 200 A - at 110 V rated value 2.5 A - at 440 V rated value 0.65 A - at 440 V rated value 0.65 A - at 440 V rated value 0.37 A • with 3 current paths in series at DC-3 at DC-5 - at 24 V rated value 200 A - at 600 V rated value 200 A - at 60 V rated value 200 A - at 110 V rated value 200 A - at 110 V rated value 200 A - at 440 V rated value 200 A - at 440 V rated value 300 A - at 4500 V rated value 40, 75 A operating power • at AC-3 - at 230 V rated value 110 kW - at 600 V rated value 110 kW - at 600 V rated value 160 kW - at 690 V rated value 200 kW - at 1000 V rated value 200 kW - at 1000 V rated value 300 kW - at 500 V rated value 300 kW - at 1000 V rated value 300 kW - at 400 V rated value 300 kW - at 600 V rated value 300 kW - at 600 V rated value 300 kW - at 600 V rated value 300 kW	 with 2 current paths in series at DC-3 at DC-5 	
at 110 V rated value 2.5 A at 220 V rated value 0.65 A at 440 V rated value 0.37 A at 320 V rated value 0.37 A at 600 V rated value 200 A at 600 V rated value 200 A at 60 V rated value 200 A at 60 V rated value 200 A at 100 V rated value 200 A at 220 V rated value 200 A at 220 V rated value 200 A at 440 V rated value 200 A at 440 V rated value 200 A at 440 V rated value 200 A at 320 V rated value 200 A at 320 V rated value 30.75 A at 230 V rated value 30.75 A at 350 V rated value 30.	— at 24 V rated value	200 A
- at 220 V rated value	— at 60 V rated value	200 A
- at 440 V rated value	— at 110 V rated value	200 A
■ with 3 current paths in series at DC-3 at DC-5 □ at 24 V rated value □ at 60 V rated value □ at 10 V rated value □ at 220 V rated value □ at 220 V rated value □ at 220 V rated value □ at 440 V rated value □ at 440 V rated value □ at 460 V rated value □ at 460 V rated value □ at 470 V rated value □ at 460 V rated value □ at 460 V rated value □ at 600 V rated value □ at 600 V rated value □ at 600 V rated value □ at 100 V rated value □ at 100 V rated value □ at 100 V rated value □ at 1000 V rated value □ at 1000 V rated value □ at 1000 V rated value □ at 230 V rated value □ at 230 V rated value □ at 100 V rated value □ at 100 V rated value □ at 690 V rated value □ at 690 V rated value □ at 1000 V rated value □ at 400 V rated value □ at 690 V rated value	— at 220 V rated value	2.5 A
with 3 current paths in series at DC-3 at DC-5 — at 24 V rated value — at 60 V rated value — at 110 V rated value — at 1220 V rated value — at 220 V rated value — at 440 V rated value — at 460 V rated value — at 460 V rated value — at 400 V rated value — at 600 V rated value — at 900 V rated value — at 1000 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 900 V rated value — at 900 V rated value — at 690 V rated value — at 900 V rated value — at 1000 V rated value — at 690 V rated value — at 1000 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value — at 690 V rated value — at 400 V rated value — at 400 V rated value — at 400 V rated value — at 690 V rated value	— at 440 V rated value	0.65 A
- at 24 V rated value 200 A - at 60 V rated value 200 A - at 110 V rated value 200 A - at 1110 V rated value 200 A - at 220 V rated value 200 A - at 440 V rated value 1.4 A - at 600 V rated value 0.75 A operating power • at AC-3 - at 230 V rated value 55 kW - at 400 V rated value 110 kW - at 500 V rated value 160 kW - at 690 V rated value 200 kW - at 1000 V rated value 90 kW • at AC-3e - at 230 V rated value 90 kW • at AC-3e - at 230 V rated value 110 kW - at 500 V rated value 90 kW • at AC-3e - at 230 V rated value 156 kW - at 400 V rated value 90 kW • at 690 V rated value 110 kW - at 500 V rated value 55 kW - at 400 V rated value 110 kW - at 690 V rated value 100 kW - at 690 V rated value 100 kW - at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 54 kW • at 690 V rated value 55 kW	— at 600 V rated value	0.37 A
at 60 V rated value 200 A at 110 V rated value 200 A at 220 V rated value 200 A at 220 V rated value 1.4 A at 600 V rated value 0.75 A operating power • at AC-3 at 230 V rated value 55 kW at 400 V rated value 110 kW at 500 V rated value 160 kW at 690 V rated value 200 kW at 1000 V rated value 90 kW • at AC-3e at 230 V rated value 90 kW • at AC-3e at 230 V rated value 110 kW at 500 V rated value 200 kW at 1000 V rated value 90 kW • at AC-3e at 230 V rated value 110 kW at 500 V rated value 110 kW at 500 V rated value 100 kW at 400 V rated value 160 kW at 690 V rated value 160 kW at 690 V rated value 55 kW at 400 V rated value 500 kW at 400 V rated value 500 kW at 400 V rated value 500 kW at 1000 V rated value 500 kW at 400 V rated value 500 kW at 400 V rated value 54 kW • at 400 V rated value 54 kW • at 400 V rated value 54 kW	 with 3 current paths in series at DC-3 at DC-5 	
- at 110 V rated value 200 A - at 220 V rated value 200 A - at 440 V rated value 1.4 A - at 600 V rated value 0.75 A operating power	— at 24 V rated value	200 A
at 220 V rated value 200 A at 440 V rated value 1.4 A at 600 V rated value 0.75 A operating power ■ at AC-3 at 230 V rated value 55 kW at 400 V rated value 110 kW at 500 V rated value 160 kW at 690 V rated value 200 kW at 1000 V rated value 90 kW ■ at AC-3e at 230 V rated value 55 kW at 400 V rated value 160 kW at 500 V rated value 90 kW ■ at AC-3e at 230 V rated value 110 kW at 500 V rated value 110 kW at 500 V rated value 90 kW at 400 V rated value 110 kW at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 54 kW ■ at 690 V rated value 55 kW	— at 60 V rated value	200 A
	— at 110 V rated value	200 A
	— at 220 V rated value	200 A
operating power	— at 440 V rated value	1.4 A
 at AC-3 — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 1000 V rated value — at 230 V rated value — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value — at 400 V rated value<td>— at 600 V rated value</td><td>0.75 A</td>	— at 600 V rated value	0.75 A
at 230 V rated value 55 kW at 400 V rated value 110 kW at 500 V rated value 200 kW at 690 V rated value 90 kW at 1000 V rated value 90 kW at 230 V rated value 55 kW at 230 V rated value 110 kW at 400 V rated value 110 kW at 500 V rated value 160 kW at 690 V rated value 200 kW at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value 54 kW at 690 V rated value 82 kW	operating power	
at 400 V rated value 110 kW at 500 V rated value 200 kW at 1000 V rated value 90 kW at 1000 V rated value 55 kW at 230 V rated value 110 kW at 500 V rated value 110 kW at 500 V rated value 110 kW at 690 V rated value 200 kW at 1000 V rated value 90 kW at 400 V rated value 55 kW at 400 V rated value 500 kW at 1000 V rated value 90 kW at 1000 V rated value 54 kW at 400 V rated value 54 kW at 400 V rated value 82 kW	• at AC-3	
at 500 V rated value 200 kW at 1000 V rated value 90 kW ■ at AC-3e at 230 V rated value 55 kW at 400 V rated value 110 kW at 500 V rated value 160 kW at 690 V rated value 200 kW at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 54 kW ■ at 690 V rated value 82 kW	— at 230 V rated value	55 kW
- at 690 V rated value 200 kW - at 1000 V rated value 90 kW ■ at AC-3e - at 230 V rated value 55 kW - at 400 V rated value 110 kW - at 500 V rated value 160 kW - at 690 V rated value 200 kW - at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 54 kW ■ at 690 V rated value 82 kW	— at 400 V rated value	110 kW
- at 1000 V rated value 90 kW ■ at AC-3e - at 230 V rated value 55 kW - at 400 V rated value 110 kW - at 500 V rated value 200 kW - at 690 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 ■ at 400 V rated value 54 kW ■ at 690 V rated value 82 kW	— at 500 V rated value	160 kW
• at AC-3e	— at 690 V rated value	200 kW
- at 230 V rated value 55 kW - at 400 V rated value 110 kW - at 500 V rated value 160 kW - at 690 V rated value 200 kW - at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-	— at 1000 V rated value	90 kW
— at 400 V rated value 110 kW — at 500 V rated value 160 kW — at 690 V rated value 200 kW — at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 4 • at 400 V rated value 54 kW • at 690 V rated value 82 kW	• at AC-3e	
— at 500 V rated value 160 kW — at 690 V rated value 200 kW — at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4	— at 230 V rated value	55 kW
— at 690 V rated value 200 kW — at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC-4 4 • at 400 V rated value 54 kW • at 690 V rated value 82 kW	— at 400 V rated value	110 kW
— at 1000 V rated value 90 kW operating power for approx. 200000 operating cycles at AC- 4 • at 400 V rated value 54 kW • at 690 V rated value 82 kW	— at 500 V rated value	160 kW
operating power for approx. 200000 operating cycles at AC- at 400 V rated value	— at 690 V rated value	200 kW
4	— at 1000 V rated value	90 kW
4	operating power for approx. 200000 operating cycles at AC-	
at 690 V rated value 82 kW		
	at 400 V rated value	54 kW
operating apparent power at AC-6a	at 690 V rated value	82 kW
	operating apparent power at AC-6a	

• up to 230 V for current peak value n=20 rated value	90 kVA
• up to 400 V for current peak value n=20 rated value	150 kVA
• up to 500 V for current peak value n=20 rated value	190 kVA
• up to 690 V for current peak value n=20 rated value	260 kVA
• up to 1000 V for current peak value n=20 rated value	110 kVA
operating apparent power at AC-6a	
• up to 230 V for current peak value n=30 rated value	60 kVA
• up to 400 V for current peak value n=30 rated value	110 kVA
• up to 500 V for current peak value n=30 rated value	140 kVA
• up to 690 V for current peak value n=30 rated value	200 kVA
• up to 1000 V for current peak value n=30 rated value	110 kVA
short-time with stand current in cold operating state up to 40 $^{\circ}\text{C}$	
 limited to 1 s switching at zero current maximum 	4 000 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	2 807 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	2 082 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	1 397 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	1 144 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	
• at AC-1 maximum	750 1/h
• at AC-2 maximum	250 1/h
• at AC-3 maximum	500 1/h
• at AC-3e	
— maximum	500 1/h
at AC-4 maximum	130 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	220 240 V
at 60 Hz rated value	220 240 V
control supply voltage at DC rated value	220 240 V
operating range factor control supply voltage rated value of magnet coil at DC	
• initial value	0.8
• full-scale value operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
• at 60 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power	THE PARTOLO
at minimum rated control supply voltage at AC	
— at 50 Hz	490 VA
— at 60 Hz	490 VA
at maximum rated control supply voltage at AC	
— at 60 Hz	590 VA
— at 50 Hz	590 VA
apparent pick-up power of magnet coil at AC	
• at 50 Hz	590 VA
• at 60 Hz	590 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power	
at minimum rated control supply voltage at DC	6.1 VA
at maximum rated control supply voltage at DC at maximum rated control supply voltage at DC	7.4 VA
apparent holding power	
at minimum rated control supply voltage at AC	
— at 50 Hz	5.6 VA

— at 60 Hz	5.6 VA
at maximum rated control supply voltage at AC	
— at 50 Hz	6.7 VA
— at 60 Hz	6.7 VA
inductive power factor with the holding power of the coil	0.1 0.7
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	650 W
holding power of magnet coil at DC	7.4 W
closing delay	
• at AC	30 95 ms
• at DC	30 95 ms
opening delay	30 30 III
• at AC	40 80 ms
• at DC	40 80 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Standard 717 712
number of NC contacts for auxiliary contacts instantaneous	2
contact	
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 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	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	180 A
at 600 V rated value	192 A
yielded mechanical performance [hp]	
• for 3-phase AC motor	
— at 200/208 V rated value	60 hp
— at 220/230 V rated value	75 hp
— at 460/480 V rated value	150 hp
— at 575/600 V rated value	200 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
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: 500 A (690 V, 100 kA)
with type of coordination 2 required	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50
,	kA)
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
fastening method side-by-side mounting	Yes
fastening method	screw fixing
height	210 mm
width	145 mm
depth	202 mm
required spacing	
 with side-by-side mounting 	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	0 mm
 for grounded parts 	
— forwards	20 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	20 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	Connection bar
for auxiliary and control circuit	screw-type terminals
at contactor for auxiliary contacts	Screw-type terminals
• of magnet coil	Screw-type terminals
width of connection bar	25 mm
thickness of connection bar	6 mm
diameter of holes	11 mm
number of holes	1
type of connectable conductor cross-sections	
for AWG cables for main contacts	2/0 500 kcmil
connectable conductor cross-section for main contacts	
• stranded	70 240 mm²
connectable conductor cross-section for auxiliary contacts	
solid or stranded	0.5 4 mm²
finely stranded with core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²)
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 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), 1x 12
AWG number as coded connectable conductor cross section for auxiliary contacts	18 14
Safety related data	
product function	
mirror contact according to IEC 60947-4-1	Yes
 positively driven operation according to IEC 60947-5-1 	No
suitable for safety function	Yes
suitability for use safety-related switching OFF	Yes
service life maximum	20 a
test wear-related service life necessary	Yes
toot would out the me medeadary	100

proportion of dangerous failures	
 with low demand rate according to SN 31920 	40 %
 with high demand rate according to SN 31920 	73 %
B10 value with high demand rate according to SN 31920	1 000 000
failure rate [FIT] with low demand rate according to SN 31920	100 FIT
ISO 13849	
device type according to ISO 13849-1	3
overdimensioning according to ISO 13849-2 necessary	Yes
IEC 61508	
safety device type according to IEC 61508-2	Type A
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Approvals Certificates	

General Product Approval









<u>KC</u>



EMV Maritime application **Functional Saftey Test Certificates**



Type Examination Cer**tificate**

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Miscellaneous



Maritime application other









Miscellaneous



other Railway Environment

Confirmation Confirmation Miscellaneous

Special Test Certific-<u>ate</u>







Environment

Environmental Confirmations

Information on the packaging

m/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=3RT1064-6AP36

Cax online generator

t.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1064-6AP36

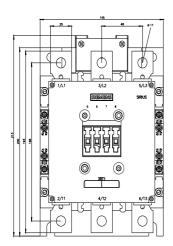
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

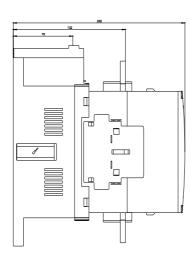
https://support.industry.siemens.com/cs/ww/en/ps/3RT1064-6AP36

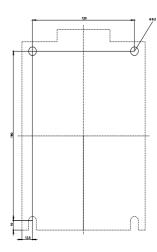
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

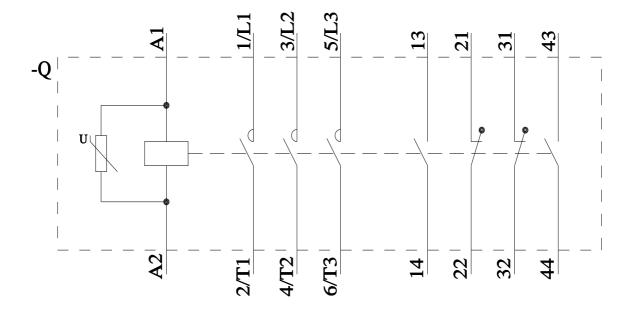
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1064-6AP36&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1064-6AP36&objecttype=14&gridview=view1









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