Data sheet

CONTACTOR, AC3: 37KW/400V, 1NO+1NC, 230VAC 50/60HZ, 3-POLE, 3NO, SIZE: S3, SPRING-TYPE TERMINALS, VERTICAL MOUNT. POS.



Figure similar

Product brand name	SIRIUS
Product designation	Power contactor
Product type designation	3RT2

General technical data	
Size of contactor	S3
Product extension	
 function module for communication 	No
Auxiliary switch	Yes
Insulation voltage	
• rated value	1 000 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 between coil and main contacts acc. to EN 	690 V
60947-1	
Protection class IP	
• on the front	IP20

• of the terminal	IP00
Shock resistance at rectangular impulse	
• at AC	6.7 g / 5 ms, 4.0 g / 10 ms
Shock resistance with sine pulse	
• at AC	10.6 g / 5 ms, 6.3 g / 10 ms
Mechanical service life (switching cycles)	
of contactor typical	10 000 000
 of the contactor with added electronics- compatible auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
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
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
Operating current	
● at AC-1 at 400 V	
— at ambient temperature 40 °C rated value	125 A
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	125 A
 up to 690 V at ambient temperature 60 °C rated value 	105 A
• at AC-2 at 400 V rated value	80 A
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
Connectable conductor cross-section in main circuit at AC-1	
• at 60 °C minimum permissible	35 mm²
• at 40 °C minimum permissible	50 mm²
Operating current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	34 A

at 690 V rated value	24 A
Operating current	
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A
— at 600 V rated value	2.6 A
Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V rated value	40 A
— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.15 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	100 A
— at 110 V rated value	100 A
— at 220 V rated value	7 A
— at 440 V rated value	0.42 A
— at 600 V rated value	0.16 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	35 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.35 A
Operating power	
• at AC-1	

- at 230 V rated value - at 230 V at 60 °C rated value - at 400 V rated value 82 k² - at 400 V at 60 °C rated value 69 k² - at 690 V rated value 119 l • at AC-2 at 400 V rated value 22 k² - at 230 V rated value 37 k² • at AC-3 - at 230 V rated value 37 k² - at 400 V rated value 37 k² - at 500 V rated value 37 k² - at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 17.9 • at 690 V rated value 53 k² - at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4	W W W kW kW W W W W W W W W W W W
- at 400 V rated value - at 400 V at 60 °C rated value - at 690 V rated value - at 690 V at 60 °C rated value - at 690 V at 60 °C rated value 119 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 500 V rated value - at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	W W kW W W W W W W KW kW kW
- at 400 V at 60 °C rated value 69 k² - at 690 V rated value 142 mat 690 V at 60 °C rated value 119 mat AC-2 at 400 V rated value 37 k² at AC-3 - at 230 V rated value 37 k² - at 400 V rated value 37 k² - at 500 V rated value 37 k² - at 690 V rated value 55 k² - at 690 V rated value 55 k² - at 400 V rated value 55 k² - at 400 V rated value 55 k² - at 400 V rated value 17.9 at 690 V rated value 55 k² - at 690 V rated value 65 k² - at 690 V rated val	W kW kW W W W kW kW kW
- at 690 V rated value - at 690 V at 60 °C 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 690 V rated value - at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 17.9 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 17.9 • at 690 V rated value 53 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4	kW kW W W W W kW kW A
- at 690 V at 60 °C 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 690 V rated value 55 k Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 17.9 • at 690 V rated value 55 k Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	kW W W W W W kW kW A
 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 690 V rated value at AC-4 at 400 V rated value at 690 V rated value of the operating current per conductor No-load switching frequency 	w w w w w kW kW
 at AC-3 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 at 400 V rated value at 690 V rated value 17.9 at 690 V rated value at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency 	W W W W kW kW
- at 230 V rated value 22 kg - at 400 V rated value 37 kg - at 500 V rated value 55 kg - at 690 V rated value 55 kg Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 17.9 • at 690 V rated value 21.8 Thermal short-time current limited to 10 s 760 kg Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	w w w kW kW
- at 400 V rated value 37 k² - at 500 V rated value 45 k² - at 690 V rated value 55 k² Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 17.9 • at 690 V rated value 21.8 Thermal short-time current limited to 10 s 760 c² Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	w w w kW kW
- at 500 V rated value 55 kg - at 690 V rated value 55 kg Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value 17.9 • at 690 V rated value 21.8 Thermal short-time current limited to 10 s 760 cg Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	w w kW kW A
— at 690 V rated value Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value 17.9 • at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	kW kW A
Operating power for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	kW kW A
at AC-4 • at 400 V rated value • at 690 V rated value 21.8 Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	kW A
 at 400 V rated value at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency 	kW A
 at 690 V rated value Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency 	kW A
Thermal short-time current limited to 10 s Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	A
Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor No-load switching frequency	
the operating current per conductor No-load switching frequency	N
No-load switching frequency	
• at AC 5 00	0.4/15
	0 1/h
Operating frequency • at AC-1 maximum 900	1/h
at 710 1 maximum	
	0 1/h
• at AC-4 maximum 300	17/1
Control circuit/ Control	
Type of voltage of the control supply voltage AC	
Control supply voltage at AC	
• at 50 Hz rated value 230	
• 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
	1.1
• at 60 Hz Apparent pick-up power of magnet coil at AC	1.1
• at 50 Hz 348	V-A

■ at 60 Hz 206	• • •
• at 60 Hz Inductive power factor with closing power of the coil	
Inductive power factor with closing power of the coil	

 at 60 Hz Inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz O.35 at 60 Hz O.41 Closing delay at AC 13 50 ms Opening delay at AC Arcing time 18 V·A 10 25 ms 	● at 50 Hz	25 V·A
Inductive power factor with the holding power of the coil • at 50 Hz		
e at 60 Hz		10 V A
• at 60 Hz Closing delay • at AC Opening delay • at AC 10 20 ms Arcing time 10 20 ms A		0.35
Closing delay		
■ at AC		
Opening delay 10 21 ms Arcing time 10 20 ms Auxiliary circuit Number of NC contacts - for auxiliary contacts — instantaneous contact 1 Number of NC contacts - instantaneous contact — for auxiliary contacts 1 — instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-13 willow 6 A • at 230 V rated value 6 A • at 500 V rated value 1 A • at 690 V rated value 1 A • at 48 V rated value 6 A • at 48 V rated value 6 A • at 125 V rated value 3 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 2 A • at 60 V rated value 1 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 25 V rated value 2 A • at 125 V rated value 2 A		13 50 ms
Arcing time 10 20 ms Availlary circuit Number of NC contacts • for auxiliary contacts - instantaneous contact 1 Number of NO contacts • for auxiliary contacts • fo	•	10 21 ms
Number of NC contacts • for auxiliary contacts — instantaneous contact 1 Number of NO contacts • for auxiliary contacts • at 400 v rated value • for A • at 400 v rated value • at 400 v rated value • at 220 v rated value • at 220 v rated value • at 600 v rated value • at 48 v rated value • at 60 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 220 v rated value • at 600 v rated value • a		
Number of NC contacts • for auxiliary contacts — instantaneous contact 1 Number of NC contacts • for auxiliary contacts • for auxiliary contacts 1 — instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 230 V rated value 3 A • at 500 V rated value 2 A • at 690 V rated value 1 A Operating current at DC-12 • at 42 V rated value • at 48 V rated value 6 A • at 60 V rated value 3 A • at 110 V rated value 3 A • at 125 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 0.15 A Operating current at DC-13 • at 24 V rated value 2 A • at 24 V rated value 2 A • at 24 V rated value 2 A • at 100 V rated value 2 A • at 25 V rated value 2 A • at 110 V rated value 2 A • at 125 V rated value 2 A </th <th></th> <th></th>		
	Auxiliary circuit	
Number of NO contacts for auxiliarry contact for auxiliarry		
Number of NO contacts		
• for auxiliary contacts — instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 25 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value • at 60 V rated value • at 70 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value		1
— instantaneous contact 1 Operating current at AC-12 maximum 10 A Operating current at AC-15 • at 230 V rated value • at 400 V rated value 3 A • at 500 V rated value 1 A • at 690 V rated value 1 A Operating current at DC-12 • at 24 V rated value • at 24 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 Operating current at DC-13 • at 24 V rated value • at 24 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 2 A • at 220 V rated value 0.9 A • at 220 V rated value 0.9 A • at 220 V rated value 0.3 A • at 600 V rated value 0.3 A • at 600 V rated value 0.3 A		
Operating current at AC-12 maximum 10 A Operating current at AC-15 6 A • at 230 V rated value 3 A • at 500 V rated value 2 A • at 690 V rated value 1 A Operating current at DC-12 10 A • at 24 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 Operating current at DC-13 10 A • at 24 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 2 A • at 220 V rated value 1 A • at 220 V rated value 0.9 A • at 220 V rated value 0.3 A • at 600 V rated value 0.1 A		
Operating current at AC-15 • at 230 V rated value 6 A • at 400 V rated value 3 A • at 690 V rated value 1 A Operating current at DC-12 • at 24 V rated value 10 A • at 48 V rated value 6 A • at 60 V rated value 3 A • at 110 V rated value 2 A • at 220 V rated value 1 A • at 600 V rated value 0.15 A Operating current at DC-13 • at 24 V rated value 2 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 110 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		
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value 1 A Operating current at DC-12 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 20 V rated value at 600 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 600 V rated value at 10 A 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 20 V rated value at 125 V rated value at 20 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 125 V rated value at 20 V rated value at 600 V rated value 		10 A
 at 400 V rated value at 500 V rated value at 690 V rated value 1 A Operating current at DC-12 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 at 600 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 10 A at 48 V rated value at 60 V rated value at 110 V rated value at 110 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 500 V rated value at 690 V rated value 1 A Operating current at DC-12 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 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value Operating current at DC-13 at 24 V rated value at 48 V rated value at 48 V rated value at 48 V rated value at 10 A at 48 V rated value at 10 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 600 V rated value 		
• at 690 V rated value Operating current at DC-12 • 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 220 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 200 V rated value • at 600 V rated value		
Operating current at DC-12 10 A • at 24 V rated value 6 A • at 60 V rated value 6 A • at 110 V rated value 3 A • at 125 V rated value 1 A • at 220 V rated value 0.15 A Operating current at DC-13 10 A • at 24 V rated value 2 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	• at 500 V rated value	
 at 24 V rated value at 48 V rated value at 6 A 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 at 24 V rated value at 48 V rated value at 48 V rated value at 10 V rated value at 10 V rated value at 20 V rated value at 20 V rated value at 20 V rated value at 30 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 600 V rated value at 100 V rated value<th></th><th>1 A</th>		1 A
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 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 20 V rated value at 60 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 at 600 V rated value 	• at 48 V rated value	6 A
 at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A Operating 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 20 V rated value at 200 V rated value at 200 V rated value at 600 V rated value at 600 V rated value at 600 V rated value 	● at 60 V rated value	6 A
 at 220 V rated value at 600 V rated value 0.15 A Operating 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 220 V rated value at 600 V rated value at 600 V rated value at 200 V rated value at 600 V rated value at 600 V rated value 	● at 110 V rated value	3 A
 at 600 V rated value Operating 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 220 V rated value at 600 V rated value 	● at 125 V rated value	2 A
Operating current at DC-13 • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 1 A • at 110 V rated value 1 A • at 220 V rated value 0.3 A • at 600 V rated value 0.1 A	● at 220 V rated value	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 at 600 V rated value 	● at 600 V rated value	0.15 A
 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 	Operating current at DC-13	
 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 0.1 A 	• at 24 V rated value	10 A
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 0.1 A 	● at 48 V rated value	2 A
 at 125 V rated value at 220 V rated value at 600 V rated value 0.9 A 0.3 A 0.1 A 	• at 60 V rated value	2 A
 at 220 V rated value at 600 V rated value 0.3 A 0.1 A 	• at 110 V rated value	1 A
• at 600 V rated value 0.1 A	• at 125 V rated value	0.9 A
	• at 220 V rated value	0.3 A
Contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA)	• 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 three-phase AC motor	
• at 480 V rated value	77 A
• at 600 V rated value	62 A
Yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp
• for three-phase AC motor	
— at 200/208 V rated value	25 hp
— at 220/230 V rated value	30 hp
— at 460/480 V rated value	60 hp
— at 575/600 V rated value	60 hp
Contact rating of auxiliary contacts according to UL	A600 / P600

Short-circuit protection

Design of the fuse link

• for short-circuit protection of the main circuit

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A

fuse gG: 10 A

Mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting
	surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail
	according to DIN EN 60715
 Side-by-side mounting 	Yes
Height	140 mm
Width	70 mm
Depth	152 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	10 mm

— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/Terminals	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	spring-loaded terminals
Type of connectable conductor cross-sections	
• for main contacts	
 finely stranded with core end processing 	2x (2.5 35 mm²), 1x (2.5 50 mm²)
 at AWG conductors for main contacts 	2x (10 1/0), 1x (10 2)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
 single or multi-stranded 	2x (0,5 2,5 mm²)
 finely stranded with core end processing 	2x (0.5 1.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
• at AWG conductors for auxiliary contacts	2x (20 16)

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	1 000 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes
• positively driven operation acc. to IEC 60947-5-	No
1	
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529

Certificates/approvals

General Product Approval

Declaration of Conformity

Test Certificates











Type Test Certificates/Test Report

I est
Certificates

Marine / Shipping

Special Test Certificate











Marine / **Shipping** other

Confirmation



Further information

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

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

Industry Mall (Online ordering system)

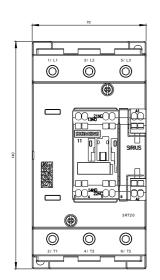
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2045-3AL20-1AA0

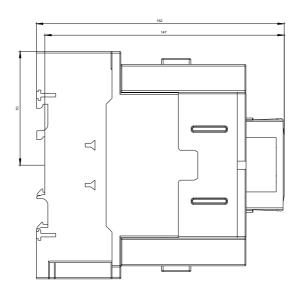
Cax online generator

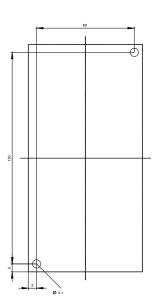
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2045-3AL20-1AA0

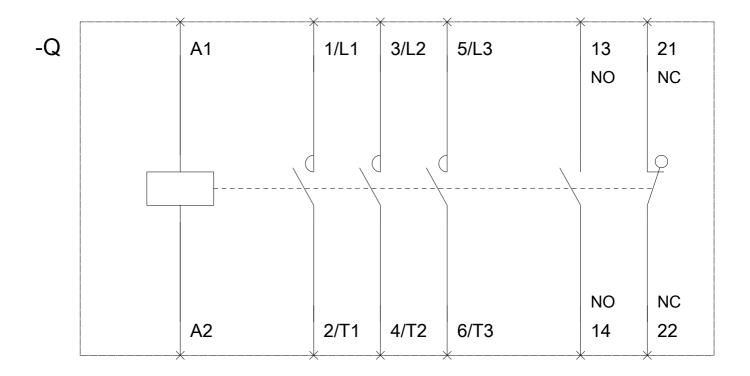
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2045-3AL20-1AA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2045-3AL20-1AA0&lang=en









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