SIEMENS

Data sheet

3RT1076-6AM36



power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 200-220 V AC/DC auxiliary contacts 2 NO + 2 NC 3-pole, frame size S12 busbar connections drive: conventional screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT1
General technical data	
size of contactor	S12
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 	165 W
 at AC in hot operating state per pole 	55 W
 without load current share typical 	10 W
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 safe isolation 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 (switching 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C

relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
lain 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	610 A
rated value	
● at AC-1	
— up to 690 V at ambient temperature 40 °C	610 A
rated value	
— up to 690 V at ambient temperature 60 °C	550 A
rated value	
 — up to 1000 V at ambient temperature 40 °C 	200 A
rated value	
— up to 1000 V at ambient temperature 60 °C	200 A
rated value	
• at AC-3	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
• at AC-3e	
— at 400 V rated value	500 A
— at 500 V rated value	500 A
— at 690 V rated value	450 A
— at 1000 V rated value	180 A
 at AC-4 at 400 V rated value 	430 A
 at AC-5a up to 690 V rated value 	536 A
 at AC-5b up to 400 V rated value 	415 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated	414 A
value	
— up to 400 V for current peak value n=20 rated	414 A
value	
— up to 500 V for current peak value n=20 rated	414 A
value	
— up to 690 V for current peak value n=20 rated	414 A
value	
— up to 1000 V for current peak value n=20 rated	180 A
value	
• at AC-6a	070 4
 — up to 230 V for current peak value n=30 rated value 	276 A
	276 A
 — up to 400 V for current peak value n=30 rated value 	210 A
— up to 500 V for current peak value n=30 rated	276 A
value	
— up to 690 V for current peak value n=30 rated	276 A
value	
— up to 1000 V for current peak value n=30 rated	180 A
value	
minimum cross-section in main circuit at maximum AC-1	370 mm²
rated value	
operational current for approx. 200000 operating	
cycles at AC-4	475 0
• at 400 V rated value	175 A
 at 690 V rated value 	150 A
operational current	

— at 24 V rated value	400 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	400 A
— at 110 V rated value	3 A
- at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	
- at 24 V rated value	400 A
— at 110 V rated value	400 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	400 A
— at 24 V rated value	400 A
— at 110 V rated value	400 A
— at 220 V rated value	400 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	400 1144
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
• at AC-3e	
— at 230 V rated value	160 kW
— at 400 V rated value	250 kW
— at 500 V rated value	315 kW
— at 690 V rated value	400 kW
— at 1000 V rated value	250 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	98 kW
• at 690 V rated value	148 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	160 000 kVA
• up to 400 V for current peak value n=20 rated value	280 000 VA
• up to 500 V for current peak value n=20 rated value	350 000 VA
• up to 690 V for current peak value n=20 rated value	490 000 VA
 up to 1000 V for current peak value n=20 rated value 	310 000 VA
operating apparent power at AC-6a	
up to 230 V for current peak value n=30 rated value	110 000 VA

 up to 400 V for current peak value n=30 rated value 	190 000 VA
 up to 500 V for current peak value n=30 rated value 	230 000 VA
 up to 690 V for current peak value n=30 rated value 	330 000 VA
 up to 1000 V for current peak value n=30 rated 	310 000 VA
value	
short-time withstand current in cold operating state	
up to 40 °C	7 494 At Lee minimum grace contian age to AC 1 roted value
 limited to 1 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	7 484 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 20 s switching at zero surrent maximum 	5 978 A; Use minimum cross-section acc. to AC-1 rated value 3 765 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero surrent maximum 	2 887 A; Use minimum cross-section acc. to AC-1 rated value
Imited to 60 s switching at zero current maximum no-load switching frequency	2 007 A, Use minimum cross-section acc. to AC-11 ateu value
• at AC	2 000 1/h
• at DC	2 000 1/h
operating frequency	2 000 1/11
• at AC-1 maximum	500 1/h
• at AC-2 maximum	170 1/h
• at AC-3 maximum	420 1/h
• at AC-3e maximum	420 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	200 220 V
• at 60 Hz rated value	200 220 V
control supply voltage at DC	
rated value	200 220 V
operating range factor control supply voltage rated	
value of magnet coil at DC	
 initial value 	0.8
full-scale value	1.1
operating range factor control supply voltage rated	
value of magnet coil at AC • at 50 Hz	0.8 1.1
• at 50 Hz	0.8 1.1
design of the surge suppressor	with varistor
apparent pick-up power of magnet coil at AC	with valistor
• at 50 Hz	830 VA
• at 60 Hz	830 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
apparent holding power of magnet coil at AC	
• at 50 Hz	9.2 VA
• at 60 Hz	9.2 VA
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.9
• at 60 Hz	0.9
closing power of magnet coil at DC	920 W
holding power of magnet coil at DC	10 W
closing delay	45 100 mg
• at AC	45 100 ms
• at DC	45 100 ms
opening delay • at AC	60 100 ms
• at DC	60 100 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	

number of NC contacts for auxiliary contacts 2 number of NO contacts for auxiliary contacts 2 operational current at AC-12 maximum 10 A operational current at AC-15 6 • 1230 V rated value 3 A • • 1600 V rated value 2 A • • 1600 V rated value 0 A • • 175 V rated value 0 A • • 180 V rated value 0 A • • • • 180 V rated value 0 A <th></th> <th></th>		
Instantancia: contact operational current at AC-16 e 1230 V rated value e 1400 V rated value e 1600 V rated value e 160 V rated va		2
operational current at AC-15 6 • • at 200 V rated value 3 A • • at 500 V rated value 3 A • • at 500 V rated value 2 A • • at 600 V rated value 1 A operational current at DC-12 6 A • • at 64 V rated value 6 A • • at 64 V rated value 6 A • • at 64 V rated value 6 A • • at 64 V rated value 6 A • • at 60 V rated value 1 A • • at 60 V rated value 1 A • • at 60 V rated value 0 A • • at 60 V rated value 0 A • • at 60 V rated value 0 A • • at 60 V rated value 0 A • • at 60 V rated value 0 A • • at 60 V rated value 0 A • • at 220 V rated value 0 A • • at 220 V rated value 0 A • • at 800 V rated value 0 A • • at 800 V rated value 477 A • • at 800 V rated value 477 A • • at 800 V rated value 400 hp • • at 200200 V rated value 200 hp <td></td> <td>2</td>		2
• e1 230 V rated value 6.A • e1 600 V rated value 2.A • e1 630 V rated value 1.A • operational current at DC-12 6.A • e1 60 V rated value 6.A • e1 60 V rated value 6.A • e1 60 V rated value 6.A • e1 61 V rated value 6.A • e1 62 V rated value 6.A • e1 62 V rated value 7.A • e1 62 V rated value 7.7 A • e1 62 V rated value 4.72 A • e1 60 V rated value 50 h p - e1 200208 V rated value 50 h p - e1 200208 V rated value 500 h p<	operational current at AC-12 maximum	10 A
• # 400 V rated value 3.A • # 600 V rated value 2.A • # 600 V rated value 1.A operational current at DC-12 6.A • # 14 V rated value 6.A • # 10 V rated value 6.A • # 110 V rated value 6.A • # 12 V rated value 6.A • # 12 V rated value 0.A • # 16 0	operational current at AC-15	
• at 600 V rated value 2 Å • at 600 V rated value 1 Å operational current at DC-12 0 Å • at 60 V rated value 6 Å • at 60 V rated value 6 Å • at 10 V rated value 6 Å • at 10 V rated value 2 Å • at 122 V rated value 2 Å • at 122 V rated value 0 Å • at 122 V rated value 0 Å • at 02 V rated value 0 Å • at 02 V rated value 0 Å • at 02 V rated value 0 Å • at 04 V rated value 0 Å • at 050 V rated value 0 Å • at 050 V rated value 0 Å • at 050 V rated value 477 Å • at 600 V rated value 477 Å • at 600 V rated value 477 Å • at 600 V rated value 400 hp • at 20020 V rated value 500 hp • at 20020 V rated value 500 hp • at 40048	 at 230 V rated value 	6 A
• at 680 V rated value 1 Å operational current at DC-12 • • at 24 V rated value 6 Å • at 10 V rated value 3 Å • at 125 V rated value 2 Å • at 220 V rated value 0.15 Å • at 240 V rated value 0.15 Å • at 250 V rated value 0.15 Å • at 200 V rated value 0.15 Å • at 200 V rated value 0.15 Å • at 800 V rated value 0.16 Å • at 800 V rated value 0.16 Å • at 800 V rated value 0.16 Å • at 800 V rated value 0.3 Å • at 800 V rated value 0.14 Å contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) ULICSA rating SU 77 Å • at 800 V rated value 477 Å • at 800 V rated value 477 Å • at 800 V rated value 470 Å • at 800 V rated value 400 Å • at 800 V	 at 400 V rated value 	3 A
operational current at DC-12 10 A • at 24 Vitated value 10 A • at 34 Vitated value 6 A • at 80 Vitated value 6 A • at 10 Vitated value 6 A • at 25 Vitated value 7 A • at 26 Vitated value 1 A • at 600 Vitated value 1 A • at 600 Vitated value 1 A • at 600 Vitated value 0.15 A operational current at DC-13 0 A • at 20 Vitated value 0.3 A • at 10 Vitated value 0.3 A • at 20 Vitated value 0.3 A • at 20 Vitated value 0.1 A • at 20 Vitated value 0.1 A • at 20 Vitated value 0.1 A • at 600 Vitated value 477 A • at 600 Vitated value 477 A • at 600 Vitated value 477 A • at 200228 Vitated value 400 hp • at 200228 Vitated value 500 hp • at 200228 Vitated value 400 hp • at 600 Vitated value 400 hp • at 600480 Vitated value 400 hp	 at 500 V rated value 	2 A
it 24 V rited value it 24 V rited value it 26 V rited value it 30 V rated value 0.9 A it 30 V rated value 0.9 A it 30 V rated value 0.1 A it 30 V rated value it 30 V p it add avalue it 40 V rated value it 30 V p it add avalue it 30 V p it add avalue it 30 V rated value it 30 V rated value it 30 V p it 40 V rated value it 50 hp contract rate it avalue value it 50 hp contract rate it avalue value it 50 hp contract rate it avalue it 50 hp	at 690 V rated value	1 A
• at 48 V rated value 6 Å • at 160 V rated value 6 Å • at 172 V rated value 3 Å • at 125 V rated value 1 Å • at 260 V rated value 0.15 Å operational current at DC-13 0.15 Å • at 24 V rated value 0.16 Å • at 24 V rated value 0.16 Å • at 24 V rated value 0.16 Å • at 24 V rated value 2 Å • at 10 V rated value 0.9 Å • at 25 V rated value 0.3 Å • at 260 V rated value 0.3 Å • at 200 V rated value 0.1 Å • at 200 V rated value 0.1 Å • at 200 V rated value 0.1 Å • at 200 V rated value 0.3 Å • at 200 V rated value 0.1 Å • at 600 V rated value 477 Å • at 600 V rated value 477 Å • at 600 V rated value 470 Å • at 600 V rated value 400 hp - at 200/208 V rated value 50 hp - at 200/208 V rated value 500 hp - at 460480 V rated value 600 hp • or short-circuit protection of the main circuit 62: 630 Å (690 V, 100 kÅ), 68: 500 Å (690 V, 50 kÅ), BS8: 500 Å (415 V, 50 kÅ) • for short-circuit protection of the auxiliary switch required 70 Å (500 V, 100 kÅ), 69	operational current at DC-12	
• at 60 V rated value 6 Å • at 120 V rated value 3 Å • at 220 V rated value 1 Å • at 220 V rated value 0.15 Å operational current at DC-13 0.16 Å • at 80 V rated value 10 Å • at 81 V rated value 2 Å • at 81 V rated value 2 Å • at 81 V rated value 2 Å • at 81 V rated value 0.9 Å • at 220 V rated value 0.1 Å • at 220 V rated value 0.1 Å • at 220 V rated value 0.1 Å • at 200 V rated value 0.1 Å • at 80 V rated value 0.1 Å • at 800 V rated value 477 Å • at 800 V rated value 477 Å • at 800 V rated value 470 Å • at 800 V rated value 400 ħ • at 800 V rated value 400 ħ • at 800 V rated value 200 ħ • at 800 V rated value 500 ħ • at 800 V rated value 500 ħ • at 800 V rated value 500 ħ • at 480 V rated value 500 ħ <tr< td=""><td> at 24 V rated value </td><td>10 A</td></tr<>	 at 24 V rated value 	10 A
	 at 48 V rated value 	6 A
• at 125 V rated value 2 Å • at 220 V rated value 0.15 Å opprational current at DC-13 0 • at 24 V rated value 10 Å • at 48 V rated value 2 Å • at 125 V rated value 0.8 Å • at 125 V rated value 0.3 Å • at 220 V rated value 0.1 Å contact reliability of rated value 0.1 Å contact reliability of rated value 0.1 Å contact reliability of rated value 477 Å • at 400 V rated value 477 Å • at 600 V rated value 477 Å • at 600 V rated value 470 Å • at 600 V rated value 477 Å • at 600 V rated value 470 Å • at 600 V rated value 470 Å • at 600 V rated value 200 hp - at 420/208 V rated value 200 hp - at 450/480 V rated value 500 hp - at 457500 V rated value 500 hp • at 57500 V rated value 500 hp • at 57500 V rated value 500 hp • at 57500 V rated value 500 hp • or short-circuit protection of the main circuit 90 (500 Å (600 V, 100 Å), 600	 at 60 V rated value 	6 A
• at 220 V rated value 1 A • at 400 V rated value 0.15 A • at 24 V rated value 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 10 V rated value 2 A • at 10 V rated value 2 A • at 10 V rated value 0.3 A • at 20 V rated value 0.3 A • at 200 V rated value 0.1 A • contact reliability of auxillary contacts 1 fauly switching per 100 million (17 V, 1 mA) UL/CSA ratings 477 A • at 600 V rated value 470 A • at 600 V rated value 470 A • at 600 V rated value 200 hp • at 600 V rated value 500 hp • for short-circuit protection of the main circuit 66: 600 A (690 V, 100 kA), gS 60 A (690 V, 50 kA), ES 88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch gG: 600 A (690 V, 100 kA), gG: 500 A (690 V, 50 kA), ES 88: 500 A	 at 110 V rated value 	3 A
• at 600 V rated value 0.15 Å operational current at DC-13 10 Å • at 43 V rated value 10 Å • at 43 V rated value 2 Å • at 60 V rated value 2 Å • at 125 V rated value 0.9 Å • at 200 V rated value 0.3 Å • at 200 V rated value 0.1 Å • at 200 V rated value 0.1 Å • at 200 V rated value 0.1 Å • at 800 V rated value 477 Å • at 800 V rated value 472 Å • at 800 V rated value 472 Å • at 800 V rated value 150 hp - at 200208 V rated value 200 hp - at 200208 V rated value 200 hp - at 80040 v rated value 500 hp • for short-circuit protection of the main circuit 500 hp - at 575600 V rated value 500 hp • for short-circuit protection of the auxiliary switch gG: 600 A (690 V, 100 kÅ), aM: 500 A (690 V, 50 kÅ), BSB8: 500 A (415 V, 50 kÅ) • for short-circuit protection of the auxiliary switch gG: 10 A (600 V, 100 kÅ), aM: 500 A (690 V, 50 kÅ), BSB8: 500 A (415 V, 50 kÅ) • with type of assignment 2 required yes hall • with t	 at 125 V rated value 	2 A
operational current at DC-13 10 A • at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 10 V rated value 2 A • at 10 V rated value 0.9 A • at 220 V rated value 0.9 A • at 220 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 4460 V rated value vielded mechanical performance [hp] 477 A • at 800 V rated value 470 P • at 800 V rated value 470 P • at 800 V rated value 400 hp - at 200/208 V rated value 200 hp - at 575/600 V rated value 500 hp • for short-circuit protection of the main circuit gc 800 A (690 V, 100 kA), at: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxilliary switch required gc: 10 A (500 V, 100 kA) <	 at 220 V rated value 	1 A
• at 24 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 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 fault switching per 100 million (17 V, 1 mA) ///CSA ratings 77 A full-load current (FLA) for 3-phase AC motor 477 A • at 420 V rated value 477 A • at 420 V rated value 472 A yielded mechanical performance [hp] • for 3-phase AC motor • for 3-phase AC motor - at 220/230 V rated value - at 220/230 V rated value 150 hp - at 220/230 V rated value 200 hp - at 55/600 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS8: 500 A (415 V, 50 kA) - with type of coordination 1 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS8: 500 A (415 V, 50 kA) - with type of coordination 1 required yo	 at 600 V rated value 	0.15 A
• at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 1 A • at 125 V rated value 0.9 A • at 220 V rated value 0.1 A • at 800 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 477 A • at 800 V rated value 477 A • at 800 V rated value 472 A • of 60 V rated value 472 A • of 80 V rated value 472 A • of 80 V rated value 472 A • of 80 V rated value 470 A • of 80 V rated value 200 hp - at 220/230 V rated value 200 hp - at 220/230 V rated value 200 hp - at 450480 V rated value 400 hp - at 220/230 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required 96: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required 96: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required 96: 10 A (500 V, 10 kA), st 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) <tr< td=""><td>operational current at DC-13</td><td></td></tr<>	operational current at DC-13	
• at 60 V rated value 2 A • at 110 V rated value 1 A • at 220 V rated value 0.9 A • at 220 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-oad current (FLA) for 3-phase AC motor 477 A • at 480 V rated value 477 A • at 480 V rated value 472 A yielded mechanical performance [hp] 600 hp • for 3-phase AC motor 150 hp - at 200/208 V rated value 200 hp - at 400/400 V rated value 200 hp - at 4575/000 V rated value 500 hp - at 575/000 V rated value 500 hp - at 575/000 V rated value 500 hp - at 60/480 W rated value 500 hp - with type of coordination 1 required 500 A (690 V, 100 KA) - with type of coordination 1 required gG: 500 A (690 V, 100 KA) - with type of assignment 2 required GG: 600 V, 100 KA) - with type of assignment 2 required Sci 0 A (690 V, 100 KA), abit 500 A (690 V, 50 KA), BS88: 500 A (415 V, 50 KA) - for short-circuit protection of the auxiliary switch ci 0 A (500 V, 1 KA)	• at 24 V rated value	10 A
• at 110 V rated value 1 A • at 125 V rated value 0.9 A • at 200 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Itality switching per 100 million (17 V, 1 mA) UL/CSA ratings 477 A • at 600 V rated value 477 A • at 600 V rated value 477 A • at 600 V rated value 472 A • at 600 V rated value 470 A • at 600 V rated value 470 A • at 600 V rated value 470 A • at 600 V rated value 500 hp - at 200/200 V rated value 200 hp - at 460/480 V rated value 500 hp - f	• at 48 V rated value	2 A
• at 125 V rated value 0.9 A • at 220 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings 1 full-load current (FLA) for 3-phase AC motor 477 A • at 400 V rated value 477 A • at 400 V rated value 477 A • at 600 V rated value 472 A yleided mechanical performance [hp] - • for 3-phase AC motor - - at 200/200 V rated value 200 hp - at 200/200 V rated value 400 hp - at 40/400 V rated value 400 hp - at 457/600 V rated value 500 hp Contact rating of auxiliary contacts according to UL A00 / 0600 Stort-circuit protection GG: 500 A (690 V, 100 kA) - with type of consignment 2 required gG: 500 A (690 V, 100 kA) - with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) e for short-circuit protection of the auxiliary switch required screw fixing • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 10 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) e side-by-side mounting Yes Installation/ mounting/ dimensions Screw fixing with vertical mounting surface +/-	• at 60 V rated value	2 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) UU/CSA ratings 477 A full-load current (FLA) for 3-phase AC motor 477 A • at 480 V rated value 477 A • at 600 V rated value 472 A yleided mechanical performance [hp] - • for 3-phase AC motor - - at 200/208 V rated value 200 hp - at 200/208 V rated value 400 hp - at 200/208 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / 0600 Short-clicuit protection of the main circuit - - with type of coordination 1 required gG: 630 A (690 V, 100 kA) - with type of coordination 1 required gG: 600 A (690 V, 100 kA), BS88: 500 A (415 V, 50 kA), BS88: 500 A (415 V,	• at 110 V rated value	
• 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 477 A • at 480 V rated value 477 A • at 600 V rated value 477 A • at 600 V rated value 472 A yleided mechanical performance [hp]	 at 125 V rated value 	0.9 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 4 • at 4800 V rated value 477 A • at 600 V rated value 472 A yielded mechanical performance [hp] 6 • for 3-phase AC motor 150 hp - at 220/208 V rated value 200 hp - at 220/230 V rated value 500 hp - at 200/208 V rated value 500 hp - at 460/480 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection 1 faulty switching gG: 500 A (690 V, 100 kA) design of the fuse link 9G: 500 A (690 V, 100 kA) • for short-circuit protection of the main circuit gG: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) fastening method screw fixing • ide-by-side mounting Yes h	 at 220 V rated value 	0.3 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 477 A • at 600 V rated value 472 A yielded mechanical performance [hp] • for 3-phase AC motor - at 220/230 V rated value 150 hp - at 220/230 V rated value 200 hp - at 460/480 V rated value 500 hp - at 575/600 V rated value 500 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 - with type of coordination 1 required gG: 630 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) resting method surface +/- 22.5" littable to the front and back screw fixing Yes height 214 mm width 160 mm deth 225 mm required spacing • with side-by-side mounting • hight 214 mm • ownwards 20 mm • upwards 10 mm	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor 477 A • at 480 V rated value 477 A • at 600 V rated value 472 A yielded mechanical performance [hp] 472 A • at 200/208 V rated value 150 hp - at 220/230 V rated value 200 hp - at 460/480 V rated value 400 hp - at 575/600 V rated value 500 hp - at 575/600 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection 400 hp e for short-circuit protection of the main circuit		1 faulty switching per 100 million (17 V, 1 mA)
• at 480 V rated value 477 Å • at 600 V rated value 472 Å • at 600 V rated value 472 Å yielded mechanical performance [hp] 6 or 3-phase ÅC motor - at 200/208 V rated value 150 hp - at 220/230 V rated value 200 hp - at 460/480 V rated value 500 hp - at 4575/600 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection 4600 / Q600 Short-circuit protection of the main circuit - with type of coordination 1 required - with type of coordination 1 required gG: 630 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 630 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • attabel mounting / dimensions screw fixing • idstallation/ mounting / dimensions screw fixing • side-by-side mounting Yes height 220 mm <	UL/CSA ratings	
• at 600 V rated value472 Ayielded mechanical performance [hp]-• for 3-phase AC motor150 hp- at 200/208 V rated value200 hp- at 220/230 V rated value200 hp- at 660/480 V rated value500 hpcontact rating of auxiliary contacts according to ULA600 / Q600Short-circuit protection of the main circuit with type of coordination 1 requiredgG: 630 A (690 V, 100 kA)• with type of assignment 2 requiredgG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA)• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)• with type of assignment 2 requiredwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, wit	full-load current (FLA) for 3-phase AC motor	
yielded mechanical performance [hp] • for 3-phase AC motor - at 200/208 V rated value - at 220230 V rated value 200 hp - at 450/480 V rated value 400 hp - at 575/600 V rated value 500 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 - with type of assignment 2 required v for short-circuit protection of the auxiliary switch required required - with type of assignment 2 required y for k100 kA), all: 500 A (690 V, 100 kA), all: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required required - with type of assignment 2 required y for k100 kA), all: 500 A (690 V, 100 kA), all: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required g G: 500 A (500 V, 1 kA) e for short-circuit protection of the auxiliary switch required y side-by-side mounting + 22.5" tiltable to the front and back <td> at 480 V rated value </td> <td>477 A</td>	 at 480 V rated value 	477 A
 for 3-phase AC motor at 200/208 V rated value 150 hp at 220/230 V rated value 200 hp at 460/480 V rated value 400 hp at 575/600 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection design of the fuse link 		472 A
- at 200/208 V rated value 150 hp - at 220/230 V rated value 200 hp - at 460/480 V rated value 400 hp - at 575/600 V rated value 500 hp contact rating of auxiliary contacts according to UL A600 / Q600 Short-circuit protection 4600 / Q600 design of the fuse link • • for short-circuit protection of the main circuit - - with type of coordination 1 required gG: 630 A (690 V, 100 kA) - with type of assignment 2 required gG: 500 A (690 V, 100 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 10 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) • for short-circuit protection gG: 500 A (690 V, 100 kA) • iside-by-side mounting Yes height 214 mm with side-by-side mounting 225 mm • with side-by-side mounting 0 mm		
	•	
at 575/600 V rated value 500 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 gG: 630 A (690 V, 100 kA) with type of coordination 1 required gG: 500 A (690 V, 100 kA) with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 214 mm width 160 mm depth 225 mm required spacing 0 mm • with side-by-side mounting 20 mm growards 10 mm downwards 10 mm at the side 0 mm		
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 gG: 630 A (690 V, 100 kA) — with type of coordination 1 required gG: 500 A (690 V, 100 kA) — with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 214 mm width 160 mm depth 225 mm - upwards 10 mm - downwards		
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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 214 mm width 160 mm depth 225 mm • with side-by-side mounting 225 mm • with side-by-side mounting 0 mm - downwards 10 mm - at the side 0 mm		
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 for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 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 eiside-by-side mounting Yes height 214 mm width 160 mm depth 225 mm required spacing with side-by-side mounting forwards upwards 0 mm downwards mm <li< td=""><td></td><td>A600 / Q600</td></li<>		A600 / Q600
 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 fastening mounting / dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing side-by-side mounting side-by-side mounting Yes height 214 mm width depth 225 mm required spacing with side-by-side mounting forwards mwards mm downwards mm downwards mm 		
with type of coordination 1 required gG: 630 A (690 V, 100 kA) with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions gG: 10 A (500 V, 1 kA) mounting position with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 214 mm width 160 mm depth 225 mm required spacing 0 mm - forwards 20 mm - upwards 10 mm - downwards 0 mm	-	
with type of assignment 2 required gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting +/- 22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting 214 mm • with side-by-side mounting 20 mm - forwards 20 mm - upwards 10 mm - at the side 0 mm		
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/-22.5° tiltable to the front and back fastening method screw fixing • side-by-side mounting Yes height 214 mm width 160 mm depth 225 mm required spacing • with side-by-side mounting - forwards 20 mm - upwards 10 mm - downwards 10 mm - a the side 0 mm		
• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensionsmounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backfastening methodscrew fixing• side-by-side mountingYesheight214 mmwidth160 mmdepth225 mmrequired spacing20 mm• with side-by-side mounting20 mm- forwards20 mm- downwards10 mm- a the side0 mm	— with type of assignment 2 required	
mounting positionwith vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and backfastening methodscrew fixing• side-by-side mountingYesheight214 mmwidth160 mmdepth225 mmrequired spacing• with side-by-side mounting20 mm- forwards20 mm- upwards10 mm- downwards0 mm- at the side0 mm		
surface +/- 22.5° tiltable to the front and backfastening methodscrew fixing• side-by-side mountingYesheight214 mmwidth160 mmdepth225 mmrequired spacing225 mm• with side-by-side mounting20 mm- forwards20 mm- downwards10 mm- at the side0 mm	Installation/ mounting/ dimensions	
• side-by-side mountingYesheight214 mmwidth160 mmdepth225 mmrequired spacing225 mm• with side-by-side mounting20 mm- forwards20 mm- upwards10 mm- downwards0 mm- at the side0 mm	mounting position	
height214 mmwidth160 mmdepth225 mmrequired spacing225 mm• with side-by-side mounting20 mm— forwards20 mm— upwards10 mm— downwards10 mm— at the side0 mm	fastening method	screw fixing
width 160 mm depth 225 mm required spacing 225 mm • with side-by-side mounting - - forwards 20 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm	 side-by-side mounting 	Yes
depth225 mmrequired spacing225 mm• with side-by-side mounting forwards20 mm- upwards10 mm- downwards10 mm- at the side0 mm	height	214 mm
required spacing • with side-by-side mounting forwards 20 mm upwards 10 mm downwards 10 mm at the side 0 mm		160 mm
 with side-by-side mounting forwards upwards downwards mm at the side mm 	•	225 mm
forwards 20 mm upwards 10 mm downwards 10 mm at the side 0 mm		
— upwards10 mm— downwards10 mm— at the side0 mm		
— downwards 10 mm — at the side 0 mm		
— at the side 0 mm	•	
for grounded parts		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			
at AWG cables for main contacts	2/0 500 kcmil		
	2/0 300 KGHIII		
connectable conductor cross-section for main contacts			
stranded	70 240 mm²		
connectable conductor cross-section for auxiliary	10 210 mm		
contacts			
 solid or stranded 	0.5 4 mm²		
 finely stranded with core end processing 	0.5 2.5 mm ²		
type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.7	$5 4 \text{ mm}^2$	
— solid or stranded			
	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²), max. 2x (0,75 4 mm ²)		
— finely stranded with core end processing	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)		
at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	2x (20 16), 2x (18 14), 1x 12		
section			
 for auxiliary contacts 	18 14		
Safety related data			
product function	Vec		
 mirror contact according to IEC 60947-4-1 positively driven exerction according to IEC 60047 	Yes		
 positively driven operation according to IEC 60947- 5-1 	No		
B10 value with high demand rate according to SN 31920	1 000 000		
protection class IP on the front according to SN 31920	IP00; IP20 with box terminal/cover		
60529			
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box t	erminal/cover	
suitability for use			
safety-related switching OFF	Yes		
Certificates/ approvals			
General Product Approval	EMC S	Functional Safety/Safety of Machinery	
		<u>Fype Examination</u> <u>Certificate</u>	
Declaration of Conformity Test Certifica	ites N	Marine / Shipping	

CE EG-Konf.	UK CA	Special Test Certific- ate	<u>Type Test Certific-</u> ates/Test Report	<u>Miscellaneous</u>	ABS
Marine / Shipping				other	
Lloyd's Register uts	PRS	RMRS	DINU-GL	<u>Confirmation</u>	<u>Miscellaneous</u>
other		Railway			
Confirmation	<u>Miscellaneous</u>	Special Test Certific- ate			
Further information					
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=3RT1076-6AM36 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AM36 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AM36 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AM36⟨=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AM36/char					

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AM36/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AM36&objecttype=14&gridview=view1

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