SIEMENS

Data sheet 3RT2036-1AP60



power contactor, AC-3 50 A, 22 kW / 400 V 1 NO + 1 NC, 220 V AC, 50 Hz / 240 V, 60 Hz, 3-pole, Size S2, screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	12 W
• per pole	4 W
power loss [W] for rated value of the current without load current share typical	18.5 W
surge voltage resistance	
 of main circuit rated value 	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	11.8g / 5 ms, 7.4g / 10 ms
shock resistance with sine pulse	
• at AC	18.5g / 5 ms, 11.6g / 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 acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	01.10.2014 00:00:00
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	690 V

operational current	70.4
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	70 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C	70 A
rated value	
— up to 690 V at ambient temperature 60 °C	60 A
rated value	
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
at AC-4 at 400 V rated value at AC-5 aug to 600 V rated value	41 A 61.6 A
at AC-5a up to 690 V rated value at AC-5b up to 400 V rated value	41.5 A
at AC-5b up to 400 V rated valueat AC-6a	41.3 A
— up to 230 V for current peak value n=20 rated	43.2 A
value	70.2 A
— up to 400 V for current peak value n=20 rated	43.2 A
value	
 up to 500 V for current peak value n=20 rated value 	43.2 A
— up to 690 V for current peak value n=20 rated	24 A
value	217
• at AC-6a	
— up to 230 V for current peak value n=30 rated	28.8 A
value	
 up to 400 V for current peak value n=30 rated value 	28.8 A
— up to 500 V for current peak value n=30 rated	28.8 A
value	20.071
— up to 690 V for current peak value n=30 rated	24 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm ²
operational current for approx. 200000 operating	
cycles at AC-4	
 at 400 V rated value 	24 A
at 690 V rated value	20 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	55 A
— at 110 V rated value	4.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.4 A
— at 600 V rated value	0.25 A
with 2 current paths in series at DC-1 at 24 V reted value.	55 A
— at 24 V rated value	55 A 45 A
— at 110 V rated value — at 220 V rated value	45 A 5 A
— at 440 V rated value	1 A
— at 600 V rated value	0.8 A
with 3 current paths in series at DC-1	0.07,
— at 24 V rated value	55 A
— at 110 V rated value	55 A
— at 220 V rated value	45 A
— at 440 V rated value	2.9 A
— at 600 V rated value	1.4 A
operational current	
at 1 current path at DC-3 at DC-5	
— at 24 V rated value	35 A

— at 110 V rated value	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.1 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	55 A
— at 110 V rated value	25 A
— at 220 V rated value	5 A
— at 440 V rated value	0.27 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	55 A
— at 110 V rated value	55 A
— at 220 V rated value	25 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.35 A
operating power	
• at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	12.6 kW
at 400 V rated value at 690 V rated value	18.2 kW
operating apparent power at AC-6a	IO.Z RVV
• up to 230 V for current peak value n=20 rated value	17.2 kV·A
 up to 400 V for current peak value n=20 rated value 	29.9 kV·A
• up to 500 V for current peak value n=20 rated value	37.4 kV·A
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
operating apparent power at AC-6a	200.000
up to 230 V for current peak value n=30 rated value	11.4 kV·A
• up to 400 V for current peak value n=30 rated value	19.9 kV·A
 up to 500 V for current peak value n=30 rated value 	24.9 kV·A
up to 690 V for current peak value n=30 rated value	28.6 kV·A
short-time withstand current in cold operating state	
up to 40 °C	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 10 s switching at zero current maximum	468 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	282 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	F 000 4/L
• at AC	5 000 1/h
operating frequency	4 000 4/h
at AC 2 maximum	1 000 1/h
 at AC-2 maximum at AC-3 maximum 	600 1/h 800 1/h
at AC-3 maximum at AC-4 maximum	800 1/h 250 1/h
	230 1/11
Control circuit/ Control	10
type of voltage of the control supply voltage	AC
control supply voltage at AC • at 50 Hz rated value	220 V
at 60 Hz rated value at 60 Hz rated value	240 V
operating range factor control supply voltage rated	270 V
value of magnet coil at AC	
● at 50 Hz	0.8 1.1

apparent pick-up power of magnet coil at AC at 50 Hz 212 V A 188 V A 188 V A A 1		
at 80 Hz at 80 Hz Inductive power factor with closing power of the coil at 80 Hz at 80 Hz apparent holding power of magnet coil at AC at 80 Hz	● at 60 Hz	0.8 1.1
a at 60 Hz	apparent pick-up power of magnet coil at AC	
Inductive power factor with closing power of the coil 0.89 0.85	● at 50 Hz	212 V·A
a at 50 Hz apparent holding power of magnet coil at AC at 50 Hz to 150 Hz to	• at 60 Hz	188 V·A
a # 160 Hz apparent holding power of magnet coil at AC a # 150 Hz a # 160 Hz	inductive power factor with closing power of the coil	
apparent holding power of magnet coil at AC • at 50 Hz at 60 Hz 10.36 • at 60 Hz 0.39 closing delay • at AC opening delay • at AC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 600 V rated value • at 600 V rated value • at 100 V r	• at 50 Hz	0.69
* at 50 Hz	● at 60 Hz	0.65
* at 50 Hz	apparent holding power of magnet coil at AC	
a ti 50 Hz		18.5 V·A
Inductive power factor with the holding power of the coil at 50 Hz	● at 60 Hz	16.5 V·A
a 15 0 Hz		
closing delay		
closing delay	● at 50 Hz	0.36
at AC	• at 60 Hz	0.39
at AC	closing delay	
acting time		10 80 ms
acting time	opening delay	
arcing time		10 18 ms
Control version of the switch operating mechanism Standard A1 - A2		
Auxiliary circuit number of NC contacts for auxiliary contacts 1		
number of NC contacts for auxiliary contacts instantaneous contact instantaneous contact 1 1 1 1 1 1 1 1 1		
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 890 V rated value • at 890 V rated value • at 80 V rated value • at 80 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 220 V rated value • at 200 V rated value • at 200 V rated value • at 200 V rated value • at 60 V rated value • at 200 V rated value • at 200 V rated value • at 60 V rated value • at 44 V rated value • at 60 V rated value • at 110 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 600 V rated value • at		1
number of NO contacts for auxilliary contacts instantaneous contact		
Operational current at AC-12 maximum 10 A	number of NO contacts for auxiliary contacts	1
Operational current at AC-15		10 A
■ at 400 V rated value ■ at 590 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at 690 V rated value ■ at 24 V rated value ■ at 48 V rated value ■ at 48 V rated value ■ at 48 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 220 V rated value ■ at 80 V rated value ■ at 80 V rated value ■ at 144 V rated value ■ at 147 V rated value ■ at 148 V rated value ■ at 48 V rated value ■ at 48 V rated value ■ at 110 V rated value ■ at 125 V rated value ■ at 220 V rated value ■ at 220 V rated value □ at 220 V rated value □ at 280 V rated value □ at 480 V rated value □ at 200 V rated value □ at 1101/120 V rated value □ at 230 V rated value □ at 230 V rated value □ at 200/208 V rated value □ bt bp	•	10 A
• at 500 V rated value • at 690 V rated value 1 A operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 100 V rated value • at 100 V rated value • at 220 V rated value • at 250 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 480 V rated value • at 600 V rated value • at 480 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor • at 230 V rated value • for 3-phase AC motor • at 200/208 V rated value • for 3-phase AC motor • at 200/208 V rated value		
• at 690 V rated value 10 A operational current at DC-12 • at 24 V rated value 6 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 0.15 A operational current at DC-13 • at 24 V rated value 10 A • at 48 V rated value 2 A • at 24 V rated value 2 A • at 600 V rated value 10 A • at 48 V rated value 2 A • at 60 V rated value 2 A • at 60 V rated value 10 A • at 48 V rated value 2 A • at 110 V rated value 2 A • at 110 V rated value 1 A • at 220 V rated value 1 A • at 280 V rated value 1 A • at 280 V rated value 1 A • at 84 W rated value 1 A • at 280 V rated value 1 A • at 600 V rated v		
Operational 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 125 V rated value • at 220 V rated value • at 600 V rated value • at 80 V rated value • at 24 V rated value • at 8 V rated value • at 80 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 125 V rated value • at 220 V rated value • at 220 V rated value • at 250 V rated value • at 250 V rated value • at 600 V rated value • at 80 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value • 15 hp		
 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 724 V rated value at 24 V rated value at 34 V rated value at 10 A at 48 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 20 V rated value at 20 V rated value at 600 V rated value at 600 V rated value at 600 V rated value 52 A at 600 V rated value 52 A at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 72 A at 100 V rated value 52 A at 100 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 200 V rated value at 200 V rated value 10 hp for 3-phase AC motor at 200/208 V rated value 15 hp 	•	10 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 operational current at DC-13 at 24 V rated value at 48 V rated value at 60 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 220 V rated value at 220 V rated value at 220 V rated value at 30 A at 60 0 V rated value at 250 V rated value at 60 V rated value 52 A at 600 V rated value 52 A at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value full-load current (FLA) for 3-phase AC motor at 480 V rated value at 20 V rated value for single-phase AC motor at 110/120 V rated value for 3-phase AC motor at 200/208 V rated value for 3-phase AC motor at 200/208 V rated value for 5 phase AC motor at 200/208 V rated value for 5 phase AC motor at 200/208 V rated value for 5 phase AC motor 		
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 48 V rated value at 10 V rated value at 60 V rated value at 48 V rated value at 10 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 220 V rated value at 30 V rated value at 30 V rated value at 600 V rated value at 600 V rated value 52 A at 600 V rated value 52 A at 600 V rated value 52 A at 600 V rated value at 480 V rated value at 22 A at 600 V rated value at 480 V rated value at 480 V rated value at 22 A at 600 V rated value at 20 V rated value 		
 at 125 V rated value at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 480 V rated value at 600 V rated value at 220 V rated value at 3 hp at 230 V rated value at 200 V rated		
 at 220 V rated value at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 480 V rated value at 22 A at 600 V rated value at 100 V rated value at 220 V rated value at 3 hp at 230 V rated value at 200 V rated value		
• at 600 V rated value		
operational 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 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 52 A full-load current (FLA) for 3-phase AC motor 52 A • at 480 V rated value 52 A • at 600 V rated value 52 A yielded mechanical performance [hp] 6 for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 10 hp • for 3-phase AC motor 15 hp		
 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 480 V rated value at 600 V rated value at 700 V rated value at 700 V rated value at 700 V rated value at 230 V rated value at 230 V rated value at 230 V rated value at 200/208 V rated value at 5 hp 		0.15 A
 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 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 72 A at 600 V rated value at 72 A at 73 A at 74 A at 75 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 600 V rated value at at 250 V rated value at 30 V rated value at 400 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 72 A at 10/120 V rated value at 230 V rated value at 230 V rated value at 230 V rated value at 200/208 V rated value at 200/208 V rated value 55 A 		
 at 110 V rated value at 125 V rated value at 220 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 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 230 V rated value at 200/208 V rated value 15 hp 	at 48 V rated value	
 at 125 V rated value at 220 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 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 15 hp 	at 60 V rated value	2 A
 at 220 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 full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 15 hp 	• at 110 V rated value	1 A
 at 600 V rated value 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 at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 15 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 • at 480 V rated value • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 15 hp	 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	at 600 V rated value	0.1 A
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 15 hp	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 15 hp	UL/CSA ratings	
 at 480 V rated value at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 15 hp 		
● at 600 V rated value yielded mechanical performance [hp] ● for single-phase AC motor — at 110/120 V rated value — at 230 V rated value ● for 3-phase AC motor — at 200/208 V rated value 15 hp		52 A
yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 10 hp • for 3-phase AC motor — at 200/208 V rated value 15 hp		
 for single-phase AC motor — at 110/120 V rated value 3 hp — at 230 V rated value 10 hp for 3-phase AC motor — at 200/208 V rated value 15 hp 		
 at 110/120 V rated value at 230 V rated value for 3-phase AC motor at 200/208 V rated value 15 hp 		
 — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value 10 hp 15 hp 		3 hn
 for 3-phase AC motor — at 200/208 V rated value 15 hp 		
— at 200/208 V rated value 15 hp		10 lip
	·	15 hn
at 220/220 V rated value		
— at 220/230 V rated value 15 hp	— at 220/250 V rated value	10 110

— at 460/480 V rised value — at 575/800 V rised value 50 hp contact rating of auxiliary contacts according to UL. 800 / F600 Short-clicular protection design of the fuse link 6 for short-circul protection of the main circuit — with type of coordination 1 required 95-180 A (880 V, 100 kA), aM: 80 A (890 V, 100 kA), BS88: 125 A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 10 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), BS88: 63A (415 V, 80 kA) 95-180 A (890 V, 100 kA), aM: 50A (690 V, 100 kA), aM:		
A600 / P600	— at 460/480 V rated value	40 hp
Short-circuit protection dosign of the fuse link	— at 575/600 V rated value	50 hp
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 • side-dy-side mounting • side-dy-side mounting • side-dy-side mounting • with side-dy-side mounting • with side-dy-side mounting • with side-dy-side mounting • with side-dy-side mounting • for grounded parts • for wards • for grounded parts • for wards • for grounded parts • for wards • for wards • for man • for wards • for man • for man current circuit • for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts • formal contacts • formal contacts • sold or stranded • finely stranded with core end processing • and two Capibles for main contacts • sold or stranded • finely stranded with core end processing • for connectable conductor cross-sections • for connectable conductor cross-sections • for auxiliary contacts • connectable conductor cross-sections • for auxiliary contacts • sold or stranded • finely stranded with core end processing • for walking contacts • for auxiliary contacts • connectable conductor cross-sections • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary conta	contact rating of auxiliary contacts according to UL	A600 / P600
For short-circuit protection of the main circuit — with type of coordination 1 required	Short-circuit protection	
— with type of coordination 1 required	design of the fuse link	
- with type of assignment 2 required	 for short-circuit protection of the main circuit 	
• for short-circuit protection of the auxiliary switch required installation mounting dimensions mounting position	— with type of coordination 1 required	
required mounting position fastening method side-by-side mounting width fastening width fasteni	— with type of assignment 2 required	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)
mounting position +-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +f-22.5° on vertical mounting surface. side-by-side mounting Yes	,	gG: 10 A (500 V, 1 kA)
mounting position +-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +f-22.5° on vertical mounting surface. side-by-side mounting Yes	Installation/ mounting/ dimensions	
## side-by-side mounting ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 ## screw and snap - DIN	-	
height width	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail
width 55 mm depth 130 mm required spacing 10 mm • with side-by-side mounting 10 mm — forwards 10 mm — downwards 10 mm — at the side 0 mm • for grounded parts 10 mm — forwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — forwards 10 mm — upwards 10 mm — downwards 10 mm — of main current circuit screw-type terminals * for auxiliary contacts screw-type terminals • of magnet coil screw-type terminals * screw-type terminals screw-type terminals * of main contacts 2x (1 35 mm²), 1x (1 50 mm²) • of main contacts 2x (1 25 mm²), 1x (1 35 mm²) • finely stranded with core end processing 1	side-by-side mounting	Yes
required spacing with side-by-side mounting	height	114 mm
required spacing with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — the side — for grounded parts — the side — downwards — the side — downwards — the side — downwards — to mm — upwards — to fine parts — forwards — upwards — to mm — upwards — to mm —	width	55 mm
with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — the side • for grounded parts — forwards — upwards — upwards — upwards — at the side — downwards — downwards — to rilve parts — forwards — upwards — downwards — upwards — at the side — domnwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded	depth	130 mm
	required spacing	
- upwards	 with side-by-side mounting 	
- downwards - at the side • for grounded parts - forwards - upwards - at the side • for live parts - forwards - downwards • for live parts - forwards - upwards - downwards - lo mm • for live parts - forwards - upwards - downwards - downwards - downwards - upwards - downwards - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary contacts - of magnet coil - screw-type terminals - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - forwards - forwards - forwards - forwards - forwards - upwards - upwards - upwards - upwards - downwards - at the side - formain current circuit • for amilitary and control circuit • at contactor for auxiliary contacts • of magnet coil - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • for live parts - solid or stranded • finely stranded with core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for live stranded • finely stranded with core end processing • for end or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — upwards — upwards — upwards — upwards — upwards — the side — downwards — the side — forwards — upwards — upwards — the side — formands — at the side — formands — the side Connections/ Terminals type of electrical connection • for ain current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)	— downwards	10 mm
- forwards 10 mm 1	— at the side	0 mm
- upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing	 for grounded parts 	
- at the side - downwards • for live parts - forwards - upwards - downwards - at the side - formal connections • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing	— forwards	10 mm
- downwards • for live parts - forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded • finely stranded with core end processing	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • finely stranded with core end processing • finely stranded • finely stranded • finely stranded • finely stranded with core end processing • for onuctable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded • finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing	— at the side	6 mm
- forwards	— downwards	10 mm
- upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing - solid or stranded - finely stranded with core end processing	 for live parts 	
- downwards - at the side Connections/ Terminals type of electrical connection	— forwards	10 mm
- downwards - at the side Connections/ Terminals type of electrical connection	— upwards	10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts of magnet coil stranded of main contacts - solid or stranded of melay stranded with core end processing of inely stranded with core end processing • finely stranded with core end processing of inely strande	•	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Screw-type terminals 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²) 		
• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil **Screw-type terminals** **Screw-type term		screw-tyne terminals
 at contactor for auxiliary contacts of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts of inely stranded with core end processing finely stranded with core end processing finely stranded with core end processing 1 35 mm² connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing 		•
• of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²) 2x (1 35 mm²), 1x (1 50 mm²)		
type of connectable conductor cross-sections		
 for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 35 mm²), 1x (1 35 mm²) 2x (1 35 mm²), 1x (1 35 mm²) 2x (1 25 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (1 25 m		Screw-type terminals
 — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts — solid or stranded with core end processing — solid or stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — finely stranded with core end processing — solid or stranded — solid or stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) — solid or stranded with core end processing 	2.	
 — finely stranded with core end processing ● at AWG cables for main contacts Ex (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) Connectable conductor cross-section for main contacts ● finely stranded with core end processing ■ solid or stranded ● finely stranded with core end processing Use of connectable conductor cross-sections ● for auxiliary contacts — solid or stranded — solid or stranded — solid or stranded — solid or stranded — finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) Use of connectable conductor cross-sections ■ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 		2v (4 25 mm²) 4v (4 50 mm²)
 at AWG cables for main contacts 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing 0.5 2.5 mm² type of connectable conductor cross-sections for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²) 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)		
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing 2x (0.5 1,5 mm²), 2x (0.75 2,5 mm²)		
contacts		∠x (18 2), 1x (18 1)
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) - finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)	contacts	
contacts		1 35 mm²
 ◆ finely stranded with core end processing type of connectable conductor cross-sections ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 		
type of connectable conductor cross-sections	 solid or stranded 	0.5 2.5 mm ²
 ◆ for auxiliary contacts — solid or stranded — finely stranded with core end processing 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 	finely stranded with core end processing	0.5 2.5 mm ²
— solid or stranded 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	type of connectable conductor cross-sections	
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	 for auxiliary contacts 	
— finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
	 finely stranded with core end processing 	

AWG number as coded connectable conductor cross section 18 ... 1 • for main contacts • for auxiliary contacts 20 ... 14 Safety related data product function mirror contact acc. to IEC 60947-4-1 Yes 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 % failure rate [FIT] with low demand rate acc. to SN 31920 100 FIT product function positively driven operation acc. to IEC No 60947-5-1 T1 value for proof test interval or service life acc. to 20 y **IEC 61508** protection class IP on the front acc. to IEC 60529 IP20 touch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front suitability for use

Yes

Certificates/ approvals

General Product Approval

• safety-related switching OFF

EMC













Functional
Safety/Safety of
Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Confirmation

Confirmation

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=3RT2036-1AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AP60

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

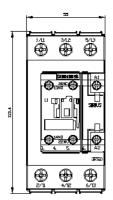
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP60

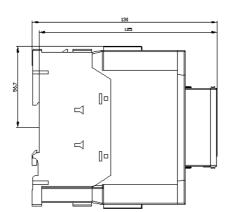
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1AP60&lang=en

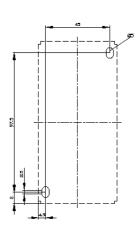
Characteristic: Tripping characteristics, I2t, Let-through current

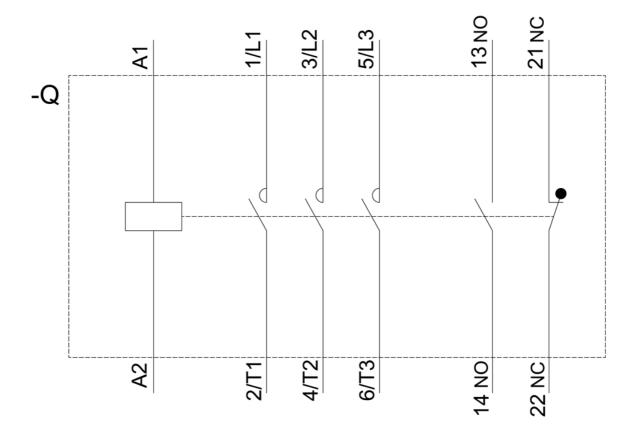
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP60/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AP60&objecttype=14&gridview=view1









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