SIEMENS

Data sheet 3RT2036-1AP64



power contactor, AC-3 50 A, 22 kW / 400 V 2 NO + 2 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	No		
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	9.8g / 5 ms, 6.5g / 10 ms		
shock resistance with sine pulse			
• at AC	15.3g / 5 ms, 10.1g / 10 ms		
mechanical service life (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	2= 2
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			

a st 60 Hz						
* at 50 Hz	● at 60 Hz	0.8 1.1				
188 V A	apparent pick-up power of magnet coil at AC					
Inductive power factor with closing power of the coil	● at 50 Hz	212 V·A				
	• at 60 Hz	188 V·A				
* at 50 Hz	inductive power factor with closing power of the coil					
apparent holding power of magnet coil at AC at 80 Hz at 80 Hz inductive power factor with the holding power of the coil at 80 Hz at 80 Hz closing delay at 80 Hz at 80 Hz control version of the switch operating mechanism control version of the switch operating mechanism Auxillary clorult number of NC contacts for auxillary contacts instantaneous contact number of NC contacts for auxillary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 at 80 V rated value at 80 V rated val	● at 50 Hz	0.69				
* at 50 Hz	• at 60 Hz					
* at 50 Hz	apparent holding power of magnet coil at AC					
Inductive power factor with the holding power of the coil		18.5 V·A				
Inductive power factor with the holding power of the coil	• at 60 Hz	16.5 V·A				
at 50 Hz						
closing delay						
closing delay	• at 50 Hz	0.36				
• at AC 10 18 ms arcing time 10 20 ms control version of the switch operating mechanism 10 20 ms Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 2 instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-14 3A • at 200 V rated value 6 A • at 500 V rated value 1 A • at 500 V rated value 1 A • at 24 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 6 A • at 125 V rated value 1 A • at 22 V rated value 2 A • at 22 V rated value 2 A • at 25 V rated value 2 A • at 27 V rated value 2 A • at 28 V rated value 2 A • at 29 V rated value 1 A • at 400 V rated value 2 A • at 48 V rated value 2 A • at 600 V rated value <td< td=""><td>• at 60 Hz</td><td>0.39</td></td<>	• at 60 Hz	0.39				
• at AC 10 18 ms arcing time 10 20 ms control version of the switch operating mechanism 10 20 ms Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact 2 instantaneous contact 2 operational current at AC-12 maximum 10 A operational current at AC-14 3A • at 200 V rated value 6 A • at 500 V rated value 1 A • at 500 V rated value 1 A • at 24 V rated value 1 A • at 24 V rated value 6 A • at 48 V rated value 6 A • at 110 V rated value 6 A • at 125 V rated value 1 A • at 22 V rated value 2 A • at 22 V rated value 2 A • at 25 V rated value 2 A • at 27 V rated value 2 A • at 28 V rated value 2 A • at 29 V rated value 1 A • at 400 V rated value 2 A • at 48 V rated value 2 A • at 600 V rated value <td< td=""><td>closing delay</td><td></td></td<>	closing delay					
■ at AC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxillary 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 400 V rated value ● at 690 V rated value ● at 690 V rated value ● at 690 V rated value ● at 440 V rated value ● at 690 V rated value ● at 60 V rated value ● at 10 V rated value ● at 10 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 24 V rated value ● at 24 V rated value ● at 24 V rated value ● at 25 V rated value ● at 260 V rated value ● at 27 V rated value ● at 28 V rated value ● at 29 V rated value ● at 29 V rated value ● at 48 V rated value ● at 20 V rated value ● at 60 V rated value ● at 20 V rated value ● at 60 V r		10 80 ms				
■ at AC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxillary 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 400 V rated value ● at 690 V rated value ● at 690 V rated value ● at 690 V rated value ● at 440 V rated value ● at 690 V rated value ● at 60 V rated value ● at 10 V rated value ● at 10 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 24 V rated value ● at 24 V rated value ● at 24 V rated value ● at 25 V rated value ● at 260 V rated value ● at 27 V rated value ● at 28 V rated value ● at 29 V rated value ● at 29 V rated value ● at 48 V rated value ● at 20 V rated value ● at 60 V rated value ● at 20 V rated value ● at 60 V r	opening delay					
arcing time		10 18 ms				
Control version of the switch operating mechanism Auxiliary circuit						
Auxiliary circuit number of NC contacts for auxiliary contacts 2 instantaneous contact number of NC contacts for auxiliary contacts number of NC contact for auxiliary contacts number of						
number of NC contacts for auxiliary contacts instantaneous contact 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 48 V rated value • at 48 V rated value • at 10 V rated value • at 20 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 11 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 120 V rated value • at 100 V rated value • at 110 V rated value • at 120 V rated value • at 20 V rated value • at 60 V rated value • at						
instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 890 V rated value • at 890 V rated value • at 800 V rated value • at 800 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 60 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 20 V rated value • at 36 O V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 20 V rated value • at 30 V rated value • at 30 V rated value • at 48 V rated value • at 48 V rated value • at 30 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 30 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 30 V rated value • at 48 V rated value • at 48 V rated value • at 30 V rated value • at 48 V rated value • at 48 V rated value • at 30 V rated value • 52 A ylelded mechanical performance [hp] • for single-phase AC motor • at 480 V rated value • for 3-phase AC motor • at 20 V rated value • for 3-phase AC motor		2				
number of NO contacts for auxilliary contacts instantaneous contact		2				
operational current at AC-15 6 A • at 230 V rated value 6 A • at 400 V rated value 3 A • at 500 V rated value 1 A • at 690 V rated value 1 A • operational current at DC-12 10 A • at 24 V rated value 6 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 220 V rated value 0.15 A • operational current at DC-13 0.15 A • operational current at DC-13 0.12 A • at 48 V rated value 2 A • at 110 V rated value 1 A • at 220 V rated value 0.3 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/GSA ratings 52 A vielded	number of NO contacts for auxiliary contacts	2				
Operational current at AC-15		10 A				
• at 230 V rated value						
 at 400 V rated value at 500 V rated value at 690 V rated value 1 A operational current at DC-12 at 24 V rated value at 80 V rated value at 48 V rated value at 6 A at 10 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 24 V rated value at 48 V rated value at 30 V rated value at 48 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 120 V rated value at 120 V rated value at 220 V rated value at 600 V rated value at 70 V rated value at 600 V rated value at 20 V rated	•	6 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 48 V rated value • at 48 V rated value • at 110 V rated value • at 122 V rated value • at 122 V rated value • at 220 V rated value • at 600 V rated value • at 8 V rated value • at 8 V rated value • at 8 V rated value • at 10 V rated value • at 10 V rated value • at 60 V rated value • at 10 V rated value • at 125 V rated value • at 120 V rated value • at 20 V rated value • at 600 V rated value • 52 A vielded mechanical performance [hp] • for single-phase AC motor - at 230 V rated value • for 3-phase AC motor						
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 80 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 800 V rated value • at 600 V rated value • at 24 V rated value • at 24 V rated value • at 25 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 30 V rated value • at 480 V rated value • at 30 V rated value • at 30 V rated value • at 30 V rated value • 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor						
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 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 70 V rated value • at 80 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 220 V rated value • at 25 V rated value • at 260 V rated value • at 60 V rated value - at 60 V rated value 52 A • at 600 V rated value • at 80 V rated value • 52 A • at 600 V rated value - at 110/120 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor		- 10				
 at 48 V rated value at 60 V rated value at 110 V rated value at 115 V rated value at 125 V rated value at 220 V rated value at 200 V rated value at 600 V rated value operational current at DC-13 at 24 V rated value at 8 V rated value at 60 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 220 V rated value at 220 V rated value at 200 V rated value at 600 V rated value 52 A at 10/120 V rated value 52 A at 10/120 V rated value at 230 V rated value at 240 V rated value at 250 V rat	•	40.4				
 at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 220 V rated value 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 200 V rated value at 30 V rated value at 600 V rated value 52 A 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 7 Explose AC motor at 480 V rated value at 20 V rated value at 3 hp at 20 V rated value at 20 V rated value						
• at 110 V rated value 2 A • at 125 V rated value 1 A • at 220 V rated value 0.15 A operational current at DC-13 • at 24 V rated value 6 A • at 600 V rated value 6 A • at 60 V rated value 7 A • at 60 V rated value 8 A • at 60 V rated value 9 A • at 10 V rated value 1 A • at 110 V rated value 1 A • at 125 V rated value 1 A • at 125 V rated value 1 A • at 220 V rated value 1 A • at 220 V rated value 1 A • at 600 V rated value 52 A yielded mechanical performance [hp] • for single-phase AC motor						
 at 125 V rated value at 220 V rated value 1 A at 600 V rated value 0.15 A operational current at DC-13 at 24 V rated value 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 20 V rated value at 600 V rated value at 7 Each Value at 600 V rated value at 120 V rated value at 110 V rated value at 110 V rated value at 110 V rated value at 230 V rated value at 24 V rated value at 25 V rated value at 26 V rated value at 27 V r						
 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 200 V rated value at 300 V rated value at 300 V rated value at 300 V rated value at 480 V rated value at 480 V rated value at 480 V rated value at 600 V rated value at 600 V rated value at 300 V rated value at 30 V rated value at 200 V rated value at 200 V rated value at 200 V rated value at 300 V rated value at						
• at 600 V rated value operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 800 V rated value • at 600 V rated value • 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 • at 600 V rated value • at 600 V rated value • at 300 V rated value • at 300 V rated value pielded mechanical performance [hp] • for single-phase AC motor — at 110/120 V rated value • for 3-phase AC motor						
operational current at DC-13 • 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 110 V rated value 1 A at 125 V rated value 0.9 A at 220 V rated value 0.3 A at 600 V rated value 0.1 A contact reliability of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 52 A at 600 V rated value 52 A yielded mechanical performance [hp] for single-phase AC motor at 110/120 V rated value 3 hp at 230 V rated value for 3-phase AC motor 		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 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 110/120 V rated value at 230 V rated value at 240 V rated value at 250 V	•					
 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 480 V rated value at 600 V rated value at 100 V rated value at 200 V rated value <l< td=""><td></td><td></td></l<>						
 at 110 V rated value at 125 V rated value at 220 V rated value at 600 V rated value 1 A at 600 V rated value 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 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor for 3-phase AC motor for 3-phase AC motor 	at 48 V rated value	2 A				
 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 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 for 3-phase AC motor 	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 3 hp at 230 V rated value for 3-phase AC motor for 3-phase AC motor 	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 for single-phase AC motor at 110/120 V rated value at 230 V rated value for 3-phase AC motor for 3-phase AC motor for 3-phase AC motor 	 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 220 V rated value 	0.3 A				
## Comparison of	 at 600 V rated value 	0.1 A				
## Comparison of	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	UL/CSA ratings					
 at 480 V rated value 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 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 10 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						
 for single-phase AC motor — at 110/120 V rated value — at 230 V rated value for 3-phase AC motor 3 hp 10 hp						
 — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor 						
— at 230 V rated value● for 3-phase AC motor						
• for 3-phase AC motor		3 hn				
·	— at 110/120 V rated value					
— at 200/200 v Tateu value	— at 110/120 V rated value— at 230 V rated value					
	 at 110/120 V rated value at 230 V rated value for 3-phase AC motor 	10 hp				
— at 220/230 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 	10 hp 15 hp				

 — at 460/480 V rated value 	40 hp			
— at 575/600 V rated value	50 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)			
 — with type of assignment 2 required 	gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)			
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)			
Installation/ mounting/ dimensions				
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface			
fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715			
side-by-side mounting	Yes			
height	114 mm			
width	55 mm			
depth	174 mm			
required spacing				
with side-by-side mounting				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	0 mm			
 for grounded parts 				
— forwards	10 mm			
— upwards	10 mm			
— at the side	6 mm			
— downwards	10 mm			
for live parts				
— forwards	10 mm			
— upwards	10 mm			
— downwards	10 mm			
— at the side	6 mm			
Connections/ Terminals				
type of electrical connection				
for main current circuit	screw-type terminals			
for auxiliary and control circuit	screw-type terminals			
at contactor for auxiliary contacts	Screw-type terminals			
• of magnet coil	Screw-type terminals			
type of connectable conductor cross-sections				
for main contacts				
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)			
finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
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	1 35 mm²			
connectable conductor cross-section for auxiliary contacts	55 11111			
solid or stranded	0.5 2.5 mm²			
	0.5 2.5 mm ²			
finely stranded with core end processing type of connectable conductor cross-sections	0.0 £.0 IIIIII			
type of connectable conductor cross-sections				
 for auxiliary contacts — solid or stranded 	2v (0.5			
	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)			
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)			

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	C E	Type Test Certificates/Test Report	Special Test Certificate	ABS

Marine / Shipping













other

<u>Confirmation</u> <u>Confirmation</u>

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=3RT2036-1AP64

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-1AP64

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

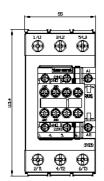
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP64

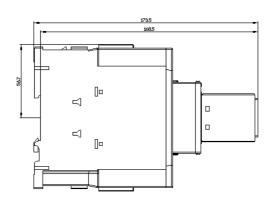
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-1AP64&lang=en

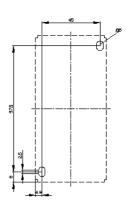
Characteristic: Tripping characteristics, I2t, Let-through current

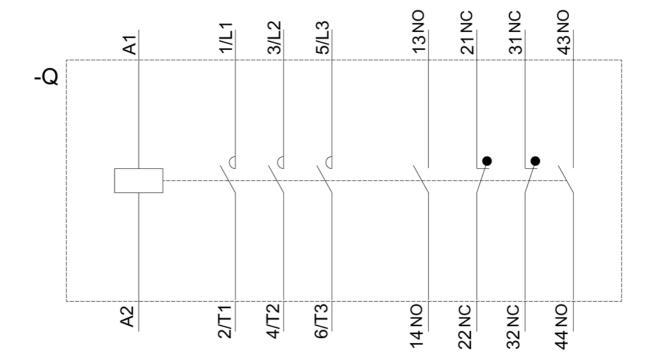
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP64/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AP64&objecttype=14&gridview=view1









last modified: 12/21/2020 ☑