SIEMENS

Data sheet

3RT2035-1AP60



power contactor, AC-3 40 A, 18.5 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	6.6 W
• per pole	2.2 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	-
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	60 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	60 A
— up to 690 V at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	41 A
— at 500 V rated value	41 A
— at 690 V rated value	24 A
 at AC-4 at 400 V rated value 	35 A
at AC-5a up to 690 V rated value	52.8 A
• at AC-5b up to 400 V rated value	33.2 A
• at AC-6a	00.27
 up to 230 V for current peak value n=20 rated value 	36.5 A
— up to 400 V for current peak value n=20 rated value	36.5 A
— up to 500 V for current peak value n=20 rated value	36.5 A
— up to 690 V for current peak value n=20 rated value	24 A
• at AC-6a	24.2.4
— up to 230 V for current peak value n=30 rated value	24.2 A
— up to 400 V for current peak value n=30 rated value	24.2 A 24.2 A
— up to 500 V for current peak value n=30 rated value — up to 690 V for current peak value n=30 rated	24.2 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	16 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	22 A
 at 690 V rated value 	18.5 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 rated value	55 A
— at 110 V rated value	45 A
— at 220 V rated value	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 	
— 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 110 V rited value 2.5 A - at 220 V rited value 1.A - at 440 V rited value 0.08 A • with 2 current paths in series at DC-3 at DC-5 5.5 - at 240 V rited value 5.5 - at 240 V rited value 5.5 - at 240 V rited value 5.7 - at 240 V rited value 0.08 A - at 240 V rited value 5.7 - at 240 V rited value 0.18 A - at 240 V rited value 0.18 A - at 240 V rited value 5.5 A - at 240 V rited value 0.5 A - at 240 V rited value 0.5 A - at 220 V rited value 0.5 A - at 220 V rited value 0.5 A - at 230 V rited value 0.5 A - at 230 V rited value 1.5 KW - at 230 V rited value 1.5 KW - at 320 V rited value 1.6 KW - at 320 V rited value 1.6 KW - at 320 V rited value 1.6 KW - at 630 V rited value 1.6 KW - at 630 V rited value 1.6 KW - at 630 V rited value		0.5.4		
	— at 110 V rated value	2.5 A		
with 2 current paths in parties at DC-3 at DC-5 at 24 V rade value 5 A at 25 V rated value 5 A at 26 V rated value 5 A at 27 A at 26 V rated value 5 A at 27 A at 26 V rated value 5 A at 27 V rated value 5 A at 27 V rated value 5 A at 26 V rated value 5 A at 27 V rated value 5 A at 26 V rated value 18 K W at 26 V rated value 19 b 26 V for current pack value n=20 rated value 19 b 16 V for current pack value n=20 rated value 19 b 16 V for current pack value n=20 rated value 18 K VA at 90 V for current pack value n=20 rated value 19 b 16 V for current pack value n=20 rated value 18 K VA at 90 V for current pack value n=20 rated value 19 b 16 V for current pack value n=20 rated value 19 b 16 V for current pack value n=20 rated value 19 b 16 V for current pack value n=20 rated value 18 K VA 28 K VA 28 K VA coperting apparent power at AC-6 infield to 15 s witching at zero current maximum infindet to 15 s				
		0.06 A		
- at 440 V rated value 0.27 A - at 600 V rated value 0.16 A - at 24 V rated value 55 A - at 24 V rated value 55 A - at 220 V rated value 55 A - at 400 V rated value 0.35 A operating power 0.35 A - at 400 V rated value 0.35 A operating power 0.35 A - at 400 V rated value 0.35 A operating power 11 K W - at 400 V rated value 125 KW - at 00 V for current pask value n=20 rated value 22 kW - at 00 V for current pask value n=20 rated value 25 kV A - up to 200 V for cu				
• with 3 current paths in series at DC-3 at DC-5 55 A - at 24 V rated value 55 A - at 220 V rated value 25 A - at 220 V rated value 0.6 A - at 240 V rated value 0.35 A operating power 0.35 A - at 230 V rated value 0.35 A operating power 0.35 A - at 230 V rated value 18.5 kW - at 230 V rated value 18.5 kW - at 400 V rated value 22 kW - at 680 V rated value 22 kW - at 400 V rated value 11.6 kW - at 400 V rated value 11.6 kW - at 400 V rated value 11.6 kW - at 400 V rated value 12.6 kV/A - up to 200 V for current pack value m=20 rated value 22 kV/A - up to 200 V for current pack value m=20 rated value 25 kV/A - up to 400 V for current pack value m=30 rated value 26 kV/A - up to 500 V for current pack value m=30 rated value 26 kV/A - up to 500 V for current pack value m=30 rated value 26 kV/A - up to 500 V for current pack value m=30 rated value 26 kV/A - up to 500 V for current pack value m=30 rated value 26 kV/				
		0.16 A		
- at 110 V rated value 55 Å - at 220 V rated value 25 Å - at 400 V rated value 0.38 Å operating power 18.5 kW • at AC-2 at 400 V rated value 18.5 kW • at AC-2 at 400 V rated value 11 kW - at 320 V rated value 11 kW - at 800 V rated value 18.5 kW - at 300 V rated value 22 kW - at 800 V rated value 22 kW - at 400 V rated value 11.6 kW • at 400 V rated value 16.8 kW • operating poper for approx. 20000 operating cycles 4 k 5 kV A • up to 200 V for current peak value n=20 rated value 16.8 kV/ • up to 500 V for current peak value n=20 rated value 31.6 kV/A • up to 500 V for current peak value n=30 rated value 31.6 kV/A • up to 500 V for current peak value n=30 rated value 21.6 kV/A • up to 500 V for current peak value n=30 rated value 21.6 kV/A • up to 500 V for current peak value n=30 rated value 21.6 kV/A • up to 600 V for current peak value n=30 rated value 21.6 kV/A • up to 600 V for current peak value n=30 rated value 21.6 kV/A • up to 600 V for	•			
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• at AC-2 at 400 V rated value 18.5 kW • at AC-3 - at 230 V rated value - at 230 V rated value 11. kW - at 600 V rated value 22. kW - at 600 V rated value 22. kW - at 600 V rated value 22. kW - at 600 V rated value 11.6 kW - at 600 V rated value 11.6 kW - at 600 V rated value 16.8 kW operating apparent power for approx. 20000 operating cycles at AC-4 14.5 kV-A - up to 230 V for current peak value n=20 rated value 14.5 kV-A - up to 500 V for current peak value n=20 rated value 25.2 kV-A - up to 500 V for current peak value n=20 rated value 26.8 kV-A - operating apparent power AC-6a 26.8 kV-A - up to 500 V for current peak value n=20 rated value 26.8 kV-A operating apparent power AC-6a 26.8 kV-A - up to 500 V for current peak value n=30 rated value 26.8 kV-A - up to 500 V for current peak value n=30 rated value 28.6 kV-A - up to 600 V for current peak value n=30 rated value 28.6 kV-A - up to 600 V for current meak value mer and rated value 28.6 kV-A - up to 600 V for current meak value mer and rated value 28.6 kV-A - up to 600 V for current meak value mer and rated value 28.6 kV-A - ot 50 witching at zero curren		0.35 A		
• at AC-3 - at 230 V rated value 11 kW - at 230 V rated value 11 kW - at 500 V rated value 22 kW - at 660 V rated value 22 kW operating power for approx. 200000 operating cycles 11 6 kW - at 400 V rated value 11 6 kW - at 630 V rated value 16 8 kW operating power for approx. 200000 operating cycles 14 5 kV-A - at 300 V for current peak value n=20 rated value 16 8 kW operating apparent power at AC-6a 16 8 kV-A - up to 530 V for current peak value n=20 rated value 25 2 kV-A - up to 500 V for current peak value n=20 rated value 26 8 kV-A - up to 500 V for current peak value n=30 rated value 9.6 kV-A - up to 500 V for current peak value n=30 rated value 28 6 kV-A - up to 400 V for current peak value n=30 rated value 24 kV-A - up to 500 V for current peak value n=30 rated value 24 kV-A - up to 500 V for current maximum 843 A; Use minimum cross-section acc. to AC-1 rated value - limited to 10 s switching at zero current maximum 843 A; Use minimum cross-section acc. to AC-1 rated value - at AC- southing at zero current maximum 196 A; Use minimum cross-section acc. to AC-1 rated				
		18.5 kW		
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operating apparent power at AC-6a 9.6 kV-A • up to 230 V for current peak value n=30 rated value 9.6 kV-A • up to 500 V for current peak value n=30 rated value 9.6 kV-A • up to 590 V for current peak value n=30 rated value 21 kV-A • up to 690 V for current peak value n=30 rated value 21 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 843 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 843 A; Use minimum cross-section acc. to AC-1 rated value • limited to 50 s switching at zero current maximum 843 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 241 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 196 A; Use minimum cross-section acc. to AC-1 rated value • at AC 5 000 1/h operating frequency 1 200 1/h • at AC-3 maximum 1 200 1/h • at AC-4 maximum 1 000 1/h • at AC-4 maximum 1 000 1/h • at AC-4 maximum 200 1/h • at AC-4 maximum 200 1/h • at AC-4 maximum <		28.6 kV·A		
• up to 400 V for current peak value n=30 rated value 16.8 kV-A • up to 500 V for current peak value n=30 rated value 21 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 843 A; Use minimum cross-section acc. to AC-1 rated value • limited to 1 s switching at zero current maximum 843 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 400 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 400 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 96 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 196 A; Use minimum cross-section acc. to AC-1 rated value • at AC 5 000 1/h • operating frequency 5 000 1/h • at AC-3 maximum 1 200 1/h • at AC-4 maximum 300 1/h • at AC-4 maximum 300 1/h • at AC-4 maximum 220 V • at 60 Hz rated value 240 V • at 60 Hz rated value 240 V	operating apparent power at AC-6a			
• up to 500 V for current peak value n=30 rated value21 kV-A• up to 690 V for current peak value n=30 rated value28.6 kV-Ashort-time withstand current in cold operating state up to 40 °C843 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum 	• up to 230 V for current peak value n=30 rated value	9.6 kV·A		
• up to 690 V for current peak value n=30 rated value28.6 kV-Ashort-time withstand current in cold operating state up to 40 °C843 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum596 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum400 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum241 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum196 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum196 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum196 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/hoperating frequency • at AC-1 maximum1 200 1/h• at AC-2 maximum1 200 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum300 1/h• at AC-4 maximum300 1/h• at S0 Hz rated value220 V• at 60 Hz rated value240 V• operating range factor control supply voltage rated value of magnet coil at AC240 V	• up to 400 V for current peak value n=30 rated value	16.8 kV·A		
short-time withstand current in cold operating state up to 40 °C843 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching frequency • at AC843 A; Use minimum cross-section acc. to AC-1 rated value 400 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency • at AC5 000 1/hoperating frequency • at AC-1 maximum1 200 1/h• at AC-2 maximum • at AC-3 maximum1 200 1/h• at AC-4 maximum • at AC-4 maximum300 1/hControl circuit/ Control220 Vtype of voltage of the control supply voltage • at 50 Hz rated valueAC• at 60 Hz rated value • at 60 Hz rated value220 V• at 60 Hz rated value • at 60 Hz rated value240 V	• up to 500 V for current peak value n=30 rated value	21 kV·A		
up to 40 °C• limited to 1 s switching at zero current maximum843 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum596 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum400 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum400 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum196 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum196 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum1 200 1/h• at AC-2 maximum750 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum300 1/h• at AC-4 maximum300 1/h• at AC-4 maximum220 V• at 50 Hz rated value220 V• at 60 Hz rated value240 V• operating range factor control supply voltage rated240 V	• up to 690 V for current peak value n=30 rated value	28.6 kV·A		
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum at AC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum at AC-4 m				
 limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum limited to 60 s switching at zero current maximum loo A; Use minimum cross-section acc. to AC-1 rated value 241 A; Use minimum cross-section acc. to AC-1 rated value loo A; Use minimum cross-section acc. to AC-1 rated value limited to 60 s switching frequency at AC at AC frequency at AC-1 maximum loo 1/h at AC-2 maximum loo 1/h at AC-3 maximum loo 1/h at AC-4 maximum loo 1/h at AC-4 maximum at AC-	 limited to 1 s switching at zero current maximum 	843 A; Use minimum cross-section acc. to AC-1 rated value		
• limited to 30 s switching at zero current maximum 241 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 196 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 5 000 1/h • at AC 5 000 1/h operating frequency 1 200 1/h • at AC-1 maximum 1 200 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 1 000 1/h • at AC-4 maximum 300 1/h • at AC-4 maximum 300 1/h Control circuit/ Control KC type of voltage of the control supply voltage AC • at 50 Hz rated value 220 V • at 60 Hz rated value 240 V operating range factor control supply voltage rated value 240 V	 limited to 5 s switching at zero current maximum 	596 A; Use minimum cross-section acc. to AC-1 rated value		
• limited to 60 s switching at zero current maximum 196 A; Use minimum cross-section acc. to AC-1 rated value no-load switching frequency 5 000 1/h • at AC 5 000 1/h operating frequency 1 200 1/h • at AC-1 maximum 1 200 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 1 000 1/h • at AC-4 maximum 300 1/h Control circuit/ Control X type of voltage of the control supply voltage AC • at 50 Hz rated value 220 V • at 60 Hz rated value 240 V operating range factor control supply voltage rated value 240 V		400 A; Use minimum cross-section acc. to AC-1 rated value		
no-load switching frequency 5 000 1/h operating frequency 1 200 1/h • at AC-1 maximum 1 200 1/h • at AC-2 maximum 750 1/h • at AC-3 maximum 1 000 1/h • at AC-4 maximum 300 1/h Control circuit/ Control K type of voltage of the control supply voltage AC control supply voltage at AC 220 V • at 50 Hz rated value 220 V • at 60 Hz rated value 240 V operating range factor control supply voltage rated value of magnet coil at AC 240 V	 limited to 30 s switching at zero current maximum 	241 A; Use minimum cross-section acc. to AC-1 rated value		
• at AC5 000 1/hoperating frequency1 200 1/h• at AC-1 maximum1 200 1/h• at AC-2 maximum750 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum300 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz rated value220 V• at 60 Hz rated value240 Voperating range factor control supply voltage ratedV		196 A; Use minimum cross-section acc. to AC-1 rated value		
operating frequency• at AC-1 maximum• at AC-2 maximum• at AC-2 maximum• at AC-3 maximum• at AC-3 maximum• at AC-4 maximum• at AC-4 maximum300 1/hControl circuit/ Controltype of voltage of the control supply voltage• at 50 Hz rated value• at 60 Hz rated value240 V• operating range factor control supply voltage ratedvalue of magnet coil at AC	no-load switching frequency			
• at AC-1 maximum1 200 1/h• at AC-2 maximum750 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum300 1/hControl circuit/ ControlKtype of voltage of the control supply voltageACACcontrol supply voltage at ACAC• at 50 Hz rated value220 V• at 60 Hz rated value240 Voperating range factor control supply voltage ratedvalue of magnet coil at ACImage rated value	• at AC	5 000 1/h		
• at AC-2 maximum750 1/h• at AC-3 maximum1 000 1/h• at AC-4 maximum300 1/hControl circuit/ ControlKtype of voltage of the control supply voltageACcontrol supply voltage at AC• at 50 Hz rated value220 V• at 60 Hz rated value240 Voperating range factor control supply voltage ratedvalue of magnet coil at AC	operating frequency			
• at AC-3 maximum1 000 1/h• at AC-4 maximum300 1/hControl circuit/ ControlACtype of voltage of the control supply voltageAC• at 50 Hz rated value220 V• at 60 Hz rated value240 V• operating range factor control supply voltage rated value of magnet coil at AC	• at AC-1 maximum	1 200 1/h		
• at AC-4 maximum 300 1/h Control circuit/ Control 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 240 V operating range factor control supply voltage rated value of magnet coil at AC	• at AC-2 maximum	750 1/h		
Control circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC 4000000000000000000000000000000000000	• at AC-3 maximum	1 000 1/h		
type of voltage of the control supply voltage AC control supply voltage at AC 220 V • at 50 Hz rated value 220 V • at 60 Hz rated value 240 V operating range factor control supply voltage rated value of magnet coil at AC	• at AC-4 maximum	300 1/h		
control supply voltage at AC 220 V • at 50 Hz rated value 240 V • at 60 Hz rated value 240 V	Control circuit/ Control			
• at 50 Hz rated value 220 V • at 60 Hz rated value 240 V operating range factor control supply voltage rated value of magnet coil at AC V	type of voltage of the control supply voltage	AC		
	control supply voltage at AC			
operating range factor control supply voltage rated value of magnet coil at AC	• at 50 Hz rated value	220 V		
value of magnet coil at AC	at 60 Hz rated value	240 V		
• at 50 Hz 0.8 1.1	-			
	• at 50 Hz	0.8 1.1		

• at 60 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	212 V·A
• at 60 Hz	188 V·A
inductive power factor with closing power of the coil	
● at 50 Hz	0.69
• at 60 Hz	0.65
apparent holding power of magnet coil at AC	
• at 50 Hz	18.5 V·A
• at 60 Hz	16.5 V·A
inductive power factor with the holding power of the coil	
• at 50 Hz	0.36
• at 60 Hz	0.39
closing delay	40 00
• at AC	10 80 ms
opening delay	40 40
• at AC	10 18 ms
arcing time	10 20 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
operational current at AC-12 maximum	10 A
operational current at AC-15	
• at 230 V rated value	10 A
at 400 V rated value	3 A
• at 500 V rated value	2 A
at 690 V rated value	1A
operational current at DC-12	
at 24 V rated value	10 A
at 48 V rated value	6 A
at 60 V rated value	6 A
• at 110 V rated value	3 A
• at 125 V rated value	2 A
• at 220 V rated value	1A
at 600 V rated value	0.15 A
operational current at DC-13	
at 24 V rated value	10 A
at 48 V rated value	2 A
at 60 V rated value	2 A
• at 110 V rated value	1A
• 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	40 A
at 600 V rated value	41 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	3 hp
— at 230 V rated value	7.5 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	10 hp
— at 220/230 V rated value	15 hp

— at 460/480 V rated value	30 hp			
— at 575/600 V rated value	40 hp			
contact rating of auxiliary contacts according to UL	A600 / P600			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the main circuit 				
— with type of coordination 1 required	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 	gG: 10 A (500 V, 1 kA)			
required				
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	130 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				
 solid or stranded 	0.5 2.5 mm ²			
 finely stranded with core end processing 	0.5 2.5 mm ²			
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 mm ²), 2x (0.75 2.5 mm ²)			
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			

AWG number as coo	ded connectable cond	luctor cross			
section					
for main contacts		18.			
 for auxiliary cor 	ntacts	20.	14		
Safety related data					
	rror contact acc. to IE				
-	emand rate acc. to SN	31920 1 00	000 000		
proportion of dange					
	d rate acc. to SN 3192				
	nd rate acc. to SN 319				
	low demand rate acc. t		FIT		
product function posit 60947-5-1	ively driven operation a	acc. to IEC No			
T1 value for proof te IEC 61508	st interval or service	life acc. to 20 y	/		
protection class IP of	on the front acc. to IE	C 60529 IP20	0		
touch protection on	the front acc. to IEC	60529 fing	er-safe, for vertical cont	act from the front	
suitability for use					
 safety-related s 	witching OFF	Yes	;		
Certificates/ approval	S				
General Product Ap	proval				EMC
Functional					
Functional Safety/Safety of Machinery	Declaration of Con	formity	Test Certificates		Marine / Shipping
<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.	<u>UK Declaration of</u> <u>Conformity</u>	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	ABS
Marine / Shipping					
BUREAU VERITAS	Lloyd's Register uis	PRS	RINA	RMRS	DNV-GL DNV-GL
other					
Confirmation	Confirmation				

Further information

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

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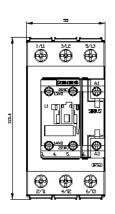
Industry Mall (Online ordering system)

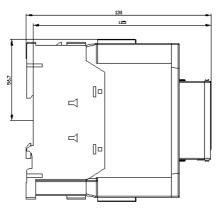
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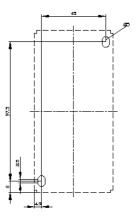
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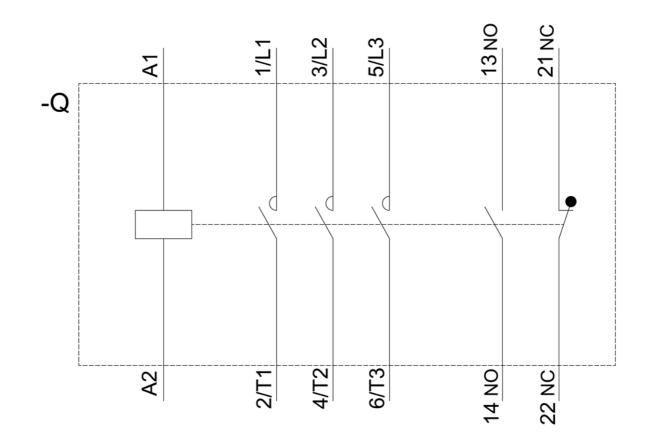
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