SIEMENS

Data sheet

3RT2037-3AN20



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, 230 V AC 50/60 Hz, 3-pole Size S2, Spring-type terminals

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 	11.4 W		
 at AC in hot operating state per pole 	3.8 W		
 without load current share typical 	17.2 W		
insulation voltage			
 of main circuit with degree of pollution 3 rated value 	690 V		
 of auxiliary circuit with degree of pollution 3 rated value 	690 V		
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 according 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 according to IEC 81346-2	Q		
Substance Prohibitance (Date)	10/01/2014		
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		
relative humidity minimum	10 %		
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %		

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
 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	80 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	80 A
— up to 690 V at ambient temperature 60 °C rated value	70 A
• at AC-3	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-3e	
— at 400 V rated value	65 A
— at 500 V rated value	65 A
— at 690 V rated value	47 A
• at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	70.4 A
• at AC-5b up to 400 V rated value	53.9 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	56.9 A
 up to 400 V for current peak value n=20 rated value 	56.9 A
 — up to 500 V for current peak value n=20 rated value 	56.9 A
 — up to 690 V for current peak value n=20 rated value 	47 A
 at AC-6a up to 230 V for current peak value n=30 rated value 	38 A
 up to 400 V for current peak value n=30 rated value 	38 A
 — up to 500 V for current peak value n=30 rated value 	38 A
 — up to 690 V for current peak value n=30 rated value 	38 A
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
operational current for approx. 200000 operating cycles at AC-4	
at 400 V rated value	28 A
at 690 V rated value	22 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	1A
— 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	0.2071
- at 24 V rated value	55 A
	55 A 45 A
— at 110 V rated value	
— at 220 V rated value	5 A
— at 440 V rated value	1A
— 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			
 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 	30 kW			
• at AC-3				
— at 230 V rated value	18.5 kW			
— at 400 V rated value	30 kW			
— at 500 V rated value	37 kW			
— at 690 V rated value	37 kW			
• at AC-3e				
— at 230 V rated value	18.5 kW			
— at 400 V rated value	30 kW			
— at 500 V rated value	37 kW			
— at 690 V rated value	37 kW			
operating power for approx. 200000 operating cycles				
at AC-4				
 at 400 V rated value 	14.7 kW			
at 690 V rated value	20 kW			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=20 rated value 	22.6 kVA			
 up to 400 V for current peak value n=20 rated value 	39.4 kVA			
 up to 500 V for current peak value n=20 rated value 	49.2 kVA			
• up to 690 V for current peak value n=20 rated value	56.1 kVA			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=30 rated value 	15.1 kVA			
 up to 400 V for current peak value n=30 rated value 	26.2 kVA			
 up to 500 V for current peak value n=30 rated value 	32.8 kVA			
 up to 690 V for current peak value n=30 rated value 	45.3 kVA			
short-time withstand current in cold operating state				
up to 40 °C				
 limited to 1 s switching at zero current maximum 	1 055 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 5 s switching at zero current maximum	730 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 10 s switching at zero current maximum	520 A; Use minimum cross-section acc. to AC-1 rated value			
 limited to 30 s switching at zero current maximum 	336 A; Use minimum cross-section acc. to AC-1 rated value			
Imited to 60 s switching at zero current maximum	272 A; Use minimum cross-section acc. to AC-1 rated value			
no-load switching frequency				
• at AC	5 000 1/h			
operating frequency				
• at AC-1 maximum	800 1/h			
at AC-2 maximum	400 1/h			

a at AC 2 mayimum	700 1/b			
• at AC-3 maximum	700 1/h			
 at AC-3e maximum at AC-4 maximum 	700 1/h			
	200 1/h			
Control circuit/ Control	10			
type of voltage of the control supply voltage	AC			
control supply voltage at AC	000.1/			
• at 50 Hz rated value	220 V			
at 60 Hz rated value	220 V			
operating range factor control supply voltage rated value of magnet coil at AC				
• at 50 Hz	0.8 1.1			
• at 60 Hz	0.85 1.1			
apparent pick-up power of magnet coil at AC				
• at 50 Hz	210 VA			
• at 60 Hz	188 VA			
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	17.2 VA			
• at 60 Hz	16.5 VA			
inductive power factor with the holding power of the coil				
• at 50 Hz	0.36			
• at 60 Hz	0.39			
closing delay				
• at AC	10 80 ms			
opening delay				
• at AC	10 18 ms			
arcing time	10 20 ms			
control version of the switch operating mechanism	Standard A1 - A2			
Auxiliary circuit				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact	1			
number of NC contacts for auxiliary contacts	1			
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts				
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1			
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum	1			
number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15	1 10 A			
number of NC contacts for auxiliary contacts 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	1 10 A 10 A			
number of NC contacts for auxiliary contacts 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	1 10 A 10 A 3 A			
number of NC contacts for auxiliary contacts 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 operational current at DC-12	1 10 A 10 A 3 A 2 A 1 A			
number of NC contacts for auxiliary contacts 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	1 10 A 10 A 3 A 2 A 1 A 10 A			
number of NC contacts for auxiliary contacts 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 operational current at DC-12	1 10 A 10 A 3 A 2 A 1 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 48 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 40 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A			
number of NC contacts for auxiliary contacts 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A			
number of NC contacts for auxiliary contacts 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 400 V rated value • at 690 V rated value • at 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 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 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 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	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A			
number of NC contacts for auxiliary contacts 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 operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 1 A 10 A 1			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10 A 2 A 1 A 10 A 2 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 210 V rated value • at 410 V rated value • at 410 V rated value • at 410 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 2 A 1 A 10			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value • at 110 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 1 A 0.15 A 10 A 2 A 1 A 0.15 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 24 V rated value • at 24 V rated value • at 48 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 24 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10 A 1			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 110 V rated value • at 220 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 0 A 2 A 1 A 0.15 A			
number of NC contacts for auxiliary contacts 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 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 600 V rated value	1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 0 A 2 A 1 A 0.15 A			

yielded mechanical performance (tro) Installation from the value Ins	at 480 V rated value	65 A				
		52 A				
• for 3-phase AC motor 20 hp - at 200208 Y rade Value 20 hp - at 420480 Y rade Value 50 hp - at 450480 Y rade Value 50 hp contact rating of auxiliary contacts according to UL A000 / P800 Short-Circuit protection of the main circuit						
		10 hp				
		20 hp				
	— at 220/230 V rated value	20 hp				
contact rating of auxiliary contacts according to UL A600 / P600 Short-circuit protection of the main circuit	— at 460/480 V rated value	50 hp				
Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit - with type of assignment 2 required • of short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fastening method • side-by-side mounting • fastening method • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • for grounded parts • of grounded parts • of grounded parts • of main current circuit • of may standed <	— 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 gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS8: 200 A (415 V, 20 kA) for short-circuit protection of the auxiliary switch required side-by-side mounting forstand to ackward by 4+ 22.5 on vestical mounting surface are and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 for side by-side mounting with side-by-side mounting for short-circuit protection for wards for main departs for wards for main departs for wards for main current circuit for awards for main current circuit for main current circuit for awards <lifor awards<="" li=""> for main curent</lifor>	contact rating of auxiliary contacts according to UL	A600 / P600				
for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required forwards	Short-circuit protection					
with type of coordination 1 required with type of assignment 2 required wards formactable conductor cross-sections formactable conductor cross-sections formactable conductor cross-sections formals forwards forwards forwards -	design of the fuse link					
(415 V, 80 kA) - with type of assignment 2 required (6: 1256 (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (9: 125A (890V, 100kA), aM: 63A (680V, 100kA), BS88: 100A (415 V, 80 kA) (10 monting uniting unitin	 for short-circuit protection of the main circuit 					
• for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installator/ mounting dimensions +/-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 0 mm • with side-by-side mounting 10 mm - forwards 10 mm - downwards 0 mm - at the side 0 mm - at the side 6 mm - downwards 10 mm - downwards	— with type of coordination 1 required					
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 screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 • side-by-side mounting Yes height 114 mm with 55 mm depth 780 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - at the side 0 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - onownards 10 mm - o	— with type of assignment 2 required					
mounting position +/-180° rotation possible on vertical mounting surface: can be tilled forward and backward by +/-22.5° on vertical mounting surface screw and backward by +/-22.5° on vertical mounting surface screw and backward by +/-22.5° on vertical mounting surface screw and backward by +/-22.5° on vertical mounting and according to DIN EN 60715 • side-by-side mounting Yes height 114 mm with 56 mm depth 130 mm required spacing 10 mm - upwards 10 mm - upwards 0 mm - downwards 0 mm - downwards 10 mm - onwards 10 mm		gG: 10 A (500 V, 1 kA)				
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 0 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - dornwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 0 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - forwards 10 mm - forwards 10 mm - forwards </td <td>Installation/ mounting/ dimensions</td> <td></td>	Installation/ mounting/ dimensions					
according to DIN EN 60715 ⁻¹ height 114 mm width 55 mm depth 130 mm required spacing - • with side-by-side mounting - - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm - at the side 0 mm • for grounded parts - - forwards 10 mm - at the side 0 mm • for grounded parts - - forwards 10 mm - at the side 0 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for auxiliary and control circuit spring-type terminals * for auxiliary and contol circuit spring-type terminals • for auxiliary and contol circuit spring-type terminals • for main contexts Spring-type terminals	mounting position					
height 114 mm width 55 mm depth 130 mm required spacing 10 mm - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 10 mm - downwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 50 mm Ometions current circuit spring-loaded terminals	fastening method					
width 55 mm depth 130 mm required spacing 130 mm • with side-by-side mounting 10 mm - forwards 10 mm - upwards 10 mm - at the side 0 mm • of grounded parts 0 mm - forwards 10 mm - at the side 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm Connections/ Terminals 10 mm type of electrical connection 6 mm of ra auxiliary and control circuit spring-type terminals • for auxiliary and control circuit spring-type terminals • of auxiliary and control circuit spring-type terminals • for main contacts 2x (1 35 mm²), 1x (1 50 mm²) - fiely stranded with core end processing 2x (1	side-by-side mounting	Yes				
depth 130 mm required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for axiliary contacts Sprin	height	114 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 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - forwards 10 mm - downwards 10 mm - downwards 10 mm - for auxiliary contacts 5 mm_jon_jologate terminals	width	55 mm				
• with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - of	depth	130 mm				
forwards 10 mm upwards 10 mm downwards 10 mm at the side 0 mm for grounded parts 0 mm forwards 10 mm upwards 10 mm downwards 10 mm forwards 10 mm downwards 10 mm at the side 6 mm Connections/ Terminals 5 pring-type terminals • for auxiliary contacts Spring-type terminals	required spacing					
- upwards 10 mm - downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 5 crew-type terminals • for main curtactirotir <t< td=""><td> with side-by-side mounting </td><td></td></t<>	 with side-by-side mounting 					
- downwards 10 mm - at the side 0 mm • for grounded parts 0 mm - forwards 10 mm - upwards 0 mm - at the side 6 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals screw-type terminals for auxiliary and control circuit spring-loaded terminals i at contactor for auxiliary contacts Spring-type terminals of magnet coil Spring-type terminals i of magnet coil Spring-type terminals i of randic contacts 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 50 mm²) i finely stranded wi	— forwards	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 - forwards 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 10 mm type of electrical connection screw-type terminals • for main current circuit spring-loaded terminals • for main current circuit spring-loaded terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • of main contacts 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 50 mm²) • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) • at MWG cables for main contacts 2x (1 25 mm²), 1x (1 1) connectable conductor cross-section for main contacts	— upwards	10 mm				
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	contacts					
connectable conductor cross-section for auxiliary		1 35 mm²				
	connectable conductor cross-section for auxiliary					

contacts							
 solid or strande 			0.5 2				
-	with core end processir	-	0.5 1				
	without core end proce		0.5 2	.5 mm²			
	conductor cross-sect	ions					
 for auxiliary con 							
— solid or str			2.5 mm²)				
-	ided with core end proc	-		2x (0.5 1.5 mm²)			
	ided without core end p	rocessing		2.5 mm²)			
	for auxiliary contacts		2x (20 14)				
	led connectable cond	uctor cross					
section	4-		40 4				
 for main contact 			18 1				
 for auxiliary con 	tacts		20 14				
Safety related data							
product function							
 mirror contact a 	ccording to IEC 60947-	-4-1	Yes				
	operation according to	IEC 60947-	No				
5-1							
	emand rate according t	o SN 31920	1 000 0	00			
proportion of dange							
	d rate according to SN		40 %				
	nd rate according to SN		73 %				
failure rate [FIT] with I 31920	ow demand rate accord	ding to SN	100 FIT				
T1 value for proof test IEC 61508	interval or service life	according to	20 y				
protection class IP c 60529	tection class IP on the front according to IEC			IP20			
touch protection on	the front according to	IEC 60529	finger-safe, for vertical contact from the front				
suitability for use			Ţ				
 safety-related s 	witching OFF		Yes				
Certificates/ approval							
General Product Ap							
Contrain roudor Ap	provu						
		<u>Confirmatic</u>	<u>n</u>		KC	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration o	of Conforr	nity	Test Certificates		
RCM	<u>Type Examination</u> <u>Certificate</u>	CE EG-Konf.		UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	
Marine / Shipping							
ABS	BUREAU VERITAS			Lloyd's Register us	PRS	RINA	
Marine / Shipping	other		ł	Railway	Dangerous Good		



Confirmation

Confirmation

Transport Information

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=3RT2037-3AN20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3AN20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AN20

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3AN20&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AN20/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3AN20&objecttype=14&gridview=view1

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