SIEMENS

Data sheet

3RT2037-3AP60



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, 220 V AC, 50 Hz 240 V, 60Hz, 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 	18.5 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

● at AC-3 maximum	700 1/h
 at AC-3 maximum at AC-3e maximum 	700 1/h
• at AC-3e maximum	200 1/h
Control circuit/ Control	200 1/11
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 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 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	18.5 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
Auxiliany aireuit	
Auxiliary circuit	1
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 instantaneous contact operational current at AC-12 maximum	
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
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 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	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 • at 500 V rated value • at 690 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	1 10 A 10 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	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 • 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
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 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 • at 690 V rated value • at 24 V rated value • at 48 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 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 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 • 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 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 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 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 • at 690 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 220 V rated value • at 600 V rated value • at 220 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 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 24 V rated value • at 600 V rated value • at 600 V rated value • at 48 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 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 220 V rated value • at 600 V rated value • at 48 V rated value • at 40 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 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 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 • 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 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	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 600 V rated value • at 110 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 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 600 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 • 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 125 V rated value • at 125 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 6 A 3 A 2 A 1 A 10 A 10 A 6 A 10 A 6 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 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 600 V rated value • at 110 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 with side-by-side mounting for short-circuit protection for wards for manued parts for manued parthor circuit for manued part	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
• for grounded parts - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - downwards 10 mm • for live parts - forwards - forwards 10 mm - upwards 10 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - for auxiliary and control circuit spring-lype terminals	— downwards	10 mm
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 6 mm type of electrical connection screw-type terminals • for main current circuit spring-loaded terminals • of magnet coil spring-loaded terminals • of magnet coil spring-type terminals • for main contacts 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 (1 25 mm²), 1x (1 10 connectable conductor cross-section for main contacts 2x (1 25 mm²), 1x (1 10 • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 8 1)	— at the side	0 mm
- forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals 6 mm type of electrical connection screw-type terminals • for main current circuit spring-loaded terminals • of magnet coil spring-loaded terminals • of magnet coil spring-type terminals • for main contacts 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 (1 25 mm²), 1x (1 10 connectable conductor cross-section for main contacts 2x (1 25 mm²), 1x (1 10 • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) • at AWG cables for main contacts 2x (1 25 mm²), 1x (1 8 1)	 for grounded parts 	
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at the side6 mm downwards10 mm• for live parts forwards10 mm upwards10 mm upwards10 mm downwards10 mm at the side6 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitspring-loaded terminals• of magnet coilSpring-type terminals• of magnet coilSpring-type terminals• for main contacts- solid or stranded- solid or stranded2x (1 35 mm²), 1x (1 50 mm²)- finely stranded with core end processing2x (1 8 2), 1x (18 1)contacts- finely stranded with core end processing• finely stranded with core end processing1 35 mm²		
- downwards 10 mm • for live parts - - forwards 10 mm - upwards 10 mm - downwards 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 spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil 2x (1 35 mm²), 1x (1 50 mm²) - solid or stranded 2x (1 25 mm²), 1x (1 35 mm²) <t< td=""><td></td><td></td></t<>		
• for live parts 10 mm - forwards 10 mm - upwards 10 mm - downwards 10 mm - a the side 6 mm Connections/ Terminals type of electrical connection • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals • of magnet coil Spring-type terminals • for main contacts - solid or stranded - 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) • finely stranded with core end processing 2x (1 8 2), 1x (18 1)		
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connectable conductor cross-section for main contacts 1 35 mm²	 finely stranded with core end processing 	2x (1 25 mm²), 1x (1 35 mm²)
• finely stranded with core end processing 1 35 mm²	 at AWG cables for main contacts 	2x (18 2), 1x (18 1)
	contacts	
connectable conductor cross-section for auxiliary		1 35 mm²
	connectable conductor cross-section for auxiliary	

 contacts solid or strande 					
 solid or strande 			0.5 0.5 mm²		
 finely stranded with core end processing 			0.5 2.5 mm² 0.5 1.5 mm²		
-		-	0.5 1.5 mm ²		
	without core end proces conductor cross-sect		0.5 2.5 mm		
		lions			
 for auxiliary cor 			$\Omega_{\rm M}$ (0 E Ω E mm ²)		
— solid or str			2x (0.5 2.5 mm ²)		
•	nded with core end proc	·	2x (0.5 1.5 mm ²)		
-	nded without core end p	processing	2x (0.5 2.5 mm ²)		
	for auxiliary contacts		2x (20 14)		
AWG number as coo	ded connectable cond	luctor cross			
for main contact	te		10 1		
		18 1 20 14			
for auxiliary contacts		20 14			
Safety related data					
product function					
	according to IEC 60947-		Yes		
	n operation according to	b IEC 60947-	No		
5-1 D10 volue with high d	lomond rate as	- CN 24020	1 000 000		
	lemand rate according t	U SIN 31920	1 000 000		
proportion of dange		0.4000	10.0/		
	nd rate according to SN		40 %		
-	nd rate according to SN		73 %		
31920	low demand rate accord	-	100 FIT		
T1 value for proof tes IEC 61508	t interval or service life	according to	20 у		
protection class IP of 60529	on the front according	to IEC	IP20		
touch protection on	the front according to	DIEC 60529	finger-safe, for vertical con	ntact from the front	
suitability for use					
 safety-related s 	witching OFF		Yes		
	-		fes		
Certificates/ approval	-		res		
-	S		Tes		
Certificates/ approval	S	Confirmatio		KC	
Certificates/ approval	S	Confirmatio		KC	FAL
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approval	S	Confirmatio		KC	EAC
Certificates/ approval	s oproval	Confirmatio		KC	EAC
Certificates/ approval General Product Ap	s oproval ccc Functional		n Que		EAC
Certificates/ approval	s oproval	Confirmatio	n Que	KC Test Certificates	EAC
Certificates/ approval General Product Ap	s oproval CCC Functional Safety/Safety of		n Que		EAC
Certificates/ approval General Product Ap	s opproval CCC Functional Safety/Safety of Machinery Type Examination	Declaration o	n Que		ERC Type Test Certific-
Certificates/ approval General Product Ap	s opproval CCC Functional Safety/Safety of Machinery	Declaration o	n Que	Test Certificates	ERC Type Test Certific- ates/Test Report
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Certificates/ approval General Product Ap EMC EMC	s oproval Ccc Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of	n f Conformity	Test Certificates	ERC Type Test Certific- ates/Test Report
Certificates/ approval General Product Ap EMC EMC	s oproval Ccc Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of	n f Conformity	Test Certificates	ERC Type Test Certific- ates/Test Report
Certificates/ approval General Product Ap EMC EMC	s oproval Ccc Functional Safety/Safety of Machinery Type Examination Certificate	Declaration of	n f Conformity	Test Certificates	EAC Type Test Certific- ates/Test Report



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=3RT2037-3AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AP60

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

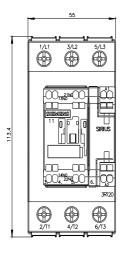
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3AP60&lang=en

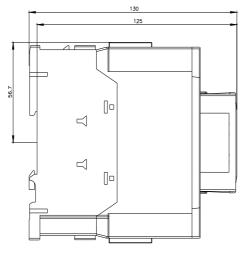
Characteristic: Tripping characteristics, I²t, Let-through current

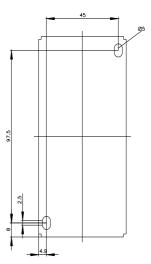
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AP60/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3AP60&objecttype=14&gridview=view1







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