SIEMENS

Data sheet 3RT2037-3AB00



Power contactor, AC-3 65 A, 30 kW / 400 V 1 NO + 1 NC, 24 V AC, 50 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
• per pole	3.8 W
power loss [W] for rated value of the current without load current share typical	16 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
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature during operation	-25 +60 °C
ambient temperature 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 at AC-1 	80 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ 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-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 at AC-6a 	47 A
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 	38 A
value	
minimum cross-section in main circuit at maximum AC-1 rated value	25 mm²
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4	
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating	28 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4	
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current	28 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1	28 A 22 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value	28 A 22 A 55 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value	28 A 22 A 55 A 4.5 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value	28 A 22 A 55 A 4.5 A 1 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value	28 A 22 A 55 A 4.5 A 1 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 220 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 120 V rated value — at 440 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 140 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 440 V rated value — at 4500 V rated value — at 440 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 24 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 20 V rated value — at 20 V rated value — at 210 V rated value — at 220 V rated value — at 220 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value • at 110 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 250 V rated value — at 270 V rated value — at 270 V rated value — at 270 V rated value — at 440 V rated value — at 440 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 110 V rated value — at 110 V rated value — at 440 V rated value — at 600 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 A 55 A 55 A 55 A 55 A 55 A 55 A
minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating cycles at AC-4 • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 600 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value — at 110 V rated value — at 220 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 220 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	28 A 22 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 5 A 1 A 0.8 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
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 kV·A
 up to 400 V for current peak value n=20 rated value 	39.4 kV·A
 up to 500 V for current peak value n=20 rated value 	49.2 kV·A
• up to 690 V for current peak value n=20 rated value	56.1 kV·A
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	15.1 kV·A
 up to 400 V for current peak value n=30 rated value 	26.2 kV·A
 up to 500 V for current peak value n=30 rated value 	32.8 kV·A
up to 690 V for current peak value n=30 rated value	45.3 kV·A
short-time withstand current in cold operating state	
up to 40 °C	4.055 A. H minimum annua anatina ana ta A.O. 4 matada alam
limited to 1 s switching at zero current maximum	1 055 A; Use minimum cross-section acc. to AC-1 rated value
limited to 5 s switching at zero current maximum	730 A; Use minimum cross-section acc. to AC-1 rated value
Iimited 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 limited to 60 s switching at zero current maximum	336 A; Use minimum cross-section acc. to AC-1 rated value
limited to 60 s switching at zero current maximum no load switching frequency.	272 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency • at AC	5 000 1/h
operating frequency	0 000 1/11
at AC-1 maximum	800 1/h
at AC-1 maximum at AC-2 maximum	400 1/h
• at AC-2 maximum • at AC-3 maximum	700 1/h
• at AC-4 maximum	200 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	710
at 50 Hz rated value	24 V
operating range factor control supply voltage rated	
value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
● at 50 Hz	190 V·A



	_
inductive power factor with closing power of the coil	
• at 50 Hz	0.72
apparent holding power of magnet coil at AC	
• at 50 Hz	16 V·A
inductive power factor with the holding power of the	
coil	
• at 50 Hz	0.37
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	
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 	1 A
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	1 A
 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 	1 A
at 125 V rated value	0.9 A
at 220 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	65 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
for single-phase AC motor	
— at 110/120 V rated value	5 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	20 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	50 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A



— with type of assignment 2 required

(415 V, 80 kA)

gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)

gG: 10 A (500 V, 1 kA)

• for short-circuit protection of the auxiliary switch required

Mounting position 4/-180" (rotation possible on vertical mounting surface; can be titled forward and backward by +2.2.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 Yes	Installation/ mounting/ dimensions	
side-by-side mounting Yes height width depth 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side 0 mm for grounded parts — forwards — upwards 10 mm — of ror grounded parts — forwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — forwards — upwards — for live parts — forwards — downwards — upwards — the side — downwards — upwards — the side — downwards — the side — for main corrent circuit • for auxiliary and control circuit • for auxiliary and control circuit • of for main current circuit • of main current circuit • of main contacts — solid or stranded — finely stranded with core end processing •	mounting position	
Neight 114 mm width 55 mm 6	fastening method	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715
width depth 130 mm required spacing • with side-by-side mounting 10 mm — upwards 10 mm — downwards 10 mm — of orgrounded parts 10 mm — if orgrounded parts 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 — of rive parts 10 mm — of rive parts 10 mm — of rowards 10 mm — of orman current circuit 5 crowards 10 mm — of or auxiliary and control circuit 5 spring-loaded terminals 5 spring-loaded terminals 5 spring-lype terminals 5 spring-lype terminals 5 spring-lype terminals 6 montacts 6 main contacts 10 mm • for main contacts 7 main contacts 10 mm • for main contacts 10 mm •	 side-by-side mounting 	Yes
depth 130 mm required spacing with side-by-side mounting	height	114 mm
required spacing with side-by-side mounting - forwards - upwards - downwards - at the side of grounded parts - forwards - upwards - towards - upwards - forwards - upwards - towards - upwards - at the side - downwards - downwards - to file parts - forwards - to file parts - forwards - upwards - to file parts - forwards - upwards - to file parts - forwards - upwards - upwards - upwards - upwards - to file parts - forwards - upwards - to file parts - forwards - upwards - to file parts - for auxiliary and control circuit - for auxiliary and control circuit - of ro auxiliary and control circuit - of main current circuit - of main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - finely stranded without core end pr	width	55 mm
with side-by-side mounting - forwards - upwards - downwards - at the side of or grounded parts - forwards - upwards - at the side of or grounded parts - upwards - at the side - downwards - at the side - downwards - 10 mm - of rilive parts - for live parts - for live parts - for live parts - forwards - upwards - upwards - 10 mm - ownwards - 10 mm - ownwards - upwards - 10 mm - ownwards - upwards - 10 mm - ownwards - at the side - ownwards - at the side - ownwards - at exide - ownwards - at exide - ownwards - at ownwards - at ornactions/ Torminals type of electrical connection of or main current circuit of or auxiliary and control circuit of a rauxiliary and control circuit of or auxiliary and control circuit of or auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections of main contacts - solid or stranded - finely stranded with core end processing onnectable conductor cross-section for main contacts onnectable conductor cross-section for auxiliary contacts of finely stranded with core end processing of finely stranded with core end processing of sinely stranded with core end processing of sinely stranded with core end processing of auxiliary contacts - solid or stranded of or stran	depth	130 mm
forwards upwards downwards at the side downwards at the side for grounded parts forwards upwards upwards at the side downwards at the side downwards to file parts forwards forwards to mm to mm the side downwards forwards to mm -	required spacing	
- upwards - downwards - dt the side - for grounded parts - forwards - upwards - at the side - downwards - upwards - at the side - downwards - upwards - downwards - downwards - for live parts - forwards - upwards - upwards - downwards - upwards - downwards - upwards - downwards - downwards - downwards - at the side - downwards - downwards - downwards - to mm - downwards - to mm - downwards - to mm - downwards - of mm - onections/ terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) 2x (18 2), 1x (18 1)	with side-by-side mounting	
- downwards - at the side • for grounded parts - forwards - upwards - at the side • downwards - upwards - downwards • for live parts - forwards - upwards - forwards - upwards - downwards - upwards - downwards - upwards - downwards - downwards - downwards - downwards - downwards - at the side Connections/ Terminals Type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts - of magnet coil Type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • solid or stranded • finely stranded without core sease contacts • for auxiliary conta	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards - forwards - forwards - forwards - forwards - forwards - forwards - upwards - upwards - upwards - downwards - at the side - formain current circuit • for main current circuit • at contactor for auxillary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded • finely stranded with core end processing • for auxillary contacts - solid or stranded • finely stranded without core end processing • for auxillary contacts - solid or stranded • finely stranded without core end processing • for auxillary contacts - solid or stranded	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards 10 mm • for live parts — forwards — upwards 10 mm • for live parts — forwards — upwards — upwards — upwards — downwards — 10 mm — downwards — 10 mm — downwards — the side — formain current circuit — for main current circuit — for auxiliary and control circuit — of magnet coil **Spring-type terminals **Type of connectable conductor cross-sections — for main contacts — solid or stranded — finely stranded with core end processing — for auxiliary contacts — solid or stranded — finely stranded without core end processing — for auxiliary contacts — solid or stranded — finely stranded without core end processing — for auxiliary contacts — solid or stranded — finely stranded without core end processing — solid or stranded — finely stranded without core end processing — solid or stranded — finely stranded without core end processing — solid or stranded — finely stranded without core end processing — solid or stranded — finely stranded — finely stranded without core end processing — solid or stranded — finely stranded — fin	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - upwards - upwards - upwards - upwards - upwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • for majn current circuit • for majn current circuit • for for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - for auxiliary contac	 for grounded parts 	
- at the side	— forwards	10 mm
- downwards • for live parts - forwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts • solid or stranded • for auxiliary contacts	— upwards	10 mm
• for live parts — forwards — upwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • for auxiliary contacts • solid or stranded	— at the side	6 mm
- forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • solid or stranded	— downwards	10 mm
- upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts - solid or stranded • for auxiliary contacts - solid or stranded • for auxiliary contacts - solid or stranded	for live parts	
- downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • solid or stranded	— forwards	10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals • type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • solid or stranded • for auxiliary contacts • for auxiliary contacts • solid or stranded	— upwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded	— downwards	10 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core send processing	— at the side	6 mm
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • solid or stranded • finely stranded with core end processing • finely stranded without core send processing	Connections/ Terminals	
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 at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at inely stranded without end in at inely stranded at inely stranded without end in at inely stranded at inely stranded without end in at inely stranded at inely stranded without end in at inely stranded at inely stranded without end in at inely stranded at inely stranded without end in at inely stranded at inely stranded without end in at inely stranded at inely stranded		
of magnet coil Spring-type terminals type of connectable conductor cross-sections of or main contacts		
type of connectable conductor cross-sections		
- solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 0.5 2.5 mm² 2x (1 25 mm²)		3 9 7 7 7 7
 — finely stranded with core end processing at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts for auxiliary contacts solid or stranded 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm²)	for main contacts	
 — finely stranded with core end processing at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for auxiliary contacts for auxiliary contacts solid or stranded 2x (1 25 mm²), 1x (1 35 mm²) 1 35 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm²)	— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)
 at AWG cables for main contacts 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts finely stranded with core end processing solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded 2x (0.5 2.5 mm²) 	 finely stranded with core end processing 	
connectable conductor cross-section for main contacts • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded 2x (0.5 2.5 mm²)		
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded 2x (0.5 2.5 mm²)		
contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded 0.5 2.5 mm² 0.5 2.5 mm² 2x (0.5 2.5 mm²)	 finely stranded with core end processing 	1 35 mm²
 finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded 2x (0.5 2.5 mm²) 	-	
 finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded 2x (0.5 2.5 mm²) 	 solid or stranded 	0.5 2.5 mm²
type of connectable conductor cross-sections	 finely stranded with core end processing 	0.5 1.5 mm²
 for auxiliary contacts — solid or stranded 2x (0.5 2.5 mm²) 	 finely stranded without core end processing 	0.5 2.5 mm²
— solid or stranded 2x (0.5 2.5 mm²)	type of connectable conductor cross-sections	
	 for auxiliary contacts 	
finally attended with core and proceeds:	 solid or stranded 	2x (0.5 2.5 mm²)
— linely stranged with core end processing 2x (0.5 1.5 mm²)	 finely stranded with core end processing 	2x (0.5 1.5 mm²)
— finely stranded without core end processing 2x (0.5 2.5 mm²)	 finely stranded without core end processing 	2x (0.5 2.5 mm²)
• at AWG cables for auxiliary contacts 2x (20 14)	 at AWG cables for auxiliary contacts 	2x (20 14)
AWG number as coded connectable conductor cross section for main contacts 18 1		18 1
AWG number as coded connectable conductor cross section for auxiliary contacts 20 14	cross section for auxiliary contacts	20 14
Safety related data	Safety related data	



B10 value with high demand rate acc. to SN 31920	1 000 000
proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	40 %
 with high demand rate acc. to SN 31920 	73 %
failure rate [FIT] with low demand rate acc. to SN 31920	100 FIT
product function	
 mirror contact acc. to IEC 60947-4-1 	Yes
 positively driven operation acc. to IEC 60947-5-1 	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
suitability for use safety-related switching OFF	Yes

Certificates/ approvals

General Product Approval

EMC







KC





Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test Certificates/Test Report

Special Test Certificate





Marine / Shipping

other











Confirmation

other

Confirmation

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-3AB00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-3AB00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AB00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2037-3AB00&lang=en

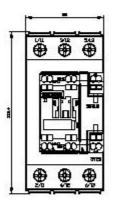
Characteristic: Tripping characteristics, I2t, Let-through current

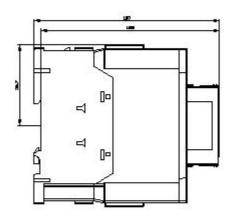
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-3AB00/char

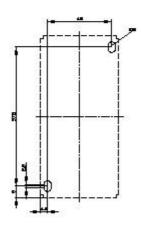
Further characteristics (e.g. electrical endurance, switching frequency)

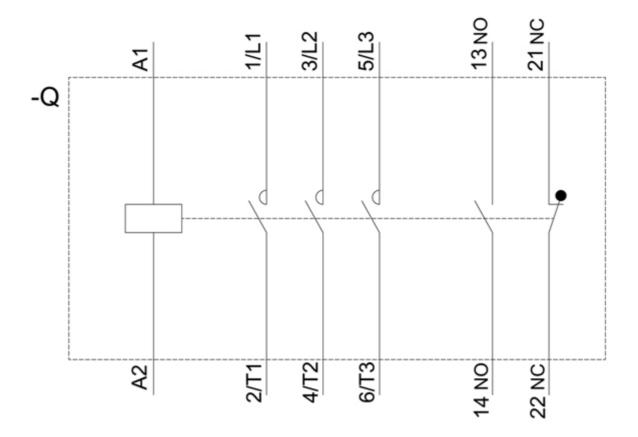
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-3AB00&objecttype=14&gridview=view1











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