SIEMENS

Data sheet 3RT2036-3AP00



power contactor, AC-3 50 A, 22 kW / 400 V 1 NO + 1 NC, 230 V AC, 50 Hz 3-pole, Size S2, Spring-type terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S2
product extension	
 function module for communication 	No
auxiliary switch	Yes
power loss [W] for rated value of the current at AC in hot operating state	12 W
• per pole	4 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 	70 A
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	70 A
 up to 690 V at ambient temperature 60 °C rated value 	60 A
• at AC-3	
— at 400 V rated value	51 A
— at 500 V rated value	51 A
— at 690 V rated value	24 A
• at AC-4 at 400 V rated value	41 A
• at AC-5a up to 690 V rated value	61.6 A
at AC-5b up to 400 V rated value	41.5 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	43.2 A
— up to 400 V for current peak value n=20 rated value	43.2 A
 up to 500 V for current peak value n=20 rated value 	43.2 A
 up to 690 V for current peak value n=20 rated value at AC-6a 	24 A
— up to 230 V for current peak value n=30 rated value	28.8 A
— up to 400 V for current peak value n=30 rated value	28.8 A
 up to 500 V for current peak value n=30 rated value 	28.8 A
— up to 690 V for current peak value n=30 rated value	24 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	24 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	24 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	24 A 20 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	24 A 20 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	24 A 20 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	24 A 20 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	24 A 20 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	24 A 20 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	24 A 20 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	24 A 20 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 • at 110 V rated value • with 2 rated value — at 110 V rated value — at 110 V rated value	24 A 20 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 110 V rated value — at 220 V rated value — at 220 V rated value	24 A 20 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	24 A 20 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 600 V rated value — at 600 V rated value	24 A 20 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 110 V rated value — at 440 V rated value — at 600 V rated value	24 A 20 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 220 V rated value — at 440 V rated value — at 440 V rated value — at 24 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	24 A 20 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 440 V rated value — at 600 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 220 V rated value — at 300 V rated value — at 440 V rated value — at 440 V rated value — at 440 V rated value — at 24 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	24 A 20 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 440 V rated value — at 220 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value — at 440 V rated value — at 24 V rated value — at 24 V rated value — at 24 V rated value • with 3 current paths in series at DC-1 — at 24 V rated value — at 220 V rated value	24 A 20 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 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 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value — at 24 V rated value — at 220 V rated value — at 220 V rated value — at 440 V rated value	24 A 20 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 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 24 V rated value — at 24 V rated value — at 24 V rated value — at 440 V rated value	24 A 20 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 110 V rated value — at 220 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 220 V rated value — at 600 V rated value — at 110 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 440 V rated value — at 600 V rated value — at 600 V rated value — at 600 V rated value	24 A 20 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 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 440 V rated value — at 110 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value	24 A 20 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 24 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	24 A 20 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	0.0071
• at AC-2 at 400 V rated value	22 kW
• at AC-3	
— at 230 V rated value	15 kW
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value — at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles	ZZ NVV
at AC-4	
at 400 V rated value	12.6 kW
at 690 V rated value	18.2 kW
operating apparent power at AC-6a	
up to 230 V for current peak value n=20 rated value	17.2 kV·A
• up to 400 V for current peak value n=20 rated value	29.9 kV·A
• up to 500 V for current peak value n=20 rated value	37.4 kV·A
• up to 690 V for current peak value n=20 rated value	28.6 kV·A
operating apparent power at AC-6a	20.0 KV //
up to 230 V for current peak value n=30 rated value	11.4 kV·A
• up to 400 V for current peak value n=30 rated value	19.9 kV·A
up to 500 V for current peak value n=30 rated value	24.9 kV·A
• up to 690 V for current peak value n=30 rated value	28.6 kV·A
short-time withstand current in cold operating state	20.0 KV A
up to 40 °C	
 limited to 1 s switching at zero current maximum 	937 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	697 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	468 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 30 s switching at zero current maximum	282 A; Use minimum cross-section acc. to AC-1 rated value
Iimited to 60 s switching at zero current maximum	229 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	5 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	600 1/h
• at AC-3 maximum	800 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	7.0
at 50 Hz rated value	230 V
operating range factor control supply voltage rated	200 0
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	0.27
• at 50 Hz	0.37
closing delay	40 00
• 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	Otanidate AT - AZ
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	52 A
at 600 V rated value	52 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
 — at 110/120 V rated value 	3 hp
— at 230 V rated value	10 hp
• for 3-phase AC motor	
— at 200/208 V rated value	15 hp
— at 220/230 V rated value	15 hp
— at 460/480 V rated value	40 hp
— at 575/600 V rated value	50 hp
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
— with type of coordination 1 required	gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415



— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

V, 80 kA)

gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)

gG: 10 A (500 V, 1 kA)

mounting position fastening method side-by-side mounting height subset by-side mounting heigh	required	
forward and backward by ++ 2.25° on vertical mounting surface served shape on mounting onto 35 mm standard mounting rail according to DIN EN 60715 * side-by-side mounting * height * with width * depth * a with side-by-side mounting * or norwards * upwards * downwards * or ownwards * or ownwards * or ownwards * or puwards * of ownwards * of in live parts * of ownwards * of ownwards * of in live parts * of ownwards * of washing and control circuit * a contactor for auxiliary contacts * of ownwards * of washing and control circuit * a contactor for auxiliary contacts * of ownwards * of washing and control circuit * a contactor for auxiliary contacts * of washing and control circuit * of ownwards * of washing and control circuit * of ownwards * of washing and control circuit * of ownwards * of washing and control circuit * of ownwards * of washing and control circuit * of ownwards * of washing and control	nstallation/ mounting/ dimensions	
e side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — of org wounded parts — forwards — 10 mm — at the side • for grounded parts — of worwards — 10 mm — at the side • for min contacts — forwards — of ownwards — of min contacts — for main contacts • for main contacts • for main contacts • finely stranded with core end processing • finely stranded with core end processing • for walkilery contacts • for awalkilery contacts • for mell conductor cross-section for main contacts — solid or stranded — finely stranded with core end processing • for mell stranded — finely stranded with core end processing • for savalilery contacts • for awalkilery contacts • for savalilery contacts • for savalilery contacts • for ply stranded with core end processing • finely stranded with core end processing • for savalilery contacts • for savalilery contacts • for one contacts • for savalilery contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for walkilery contacts • for savalilery contacts • for savalilery contacts • for savalilery contacts • for savalilery contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • for walkilery contacts • for walkilery contacts • for savalilery co	mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Meight width	fastening method	
Meth Se mm	side-by-side mounting	Yes
required spacing with side-by-side mounting — forwards — upwards — downwards — of orgonoded parts — forwards — at the side — forwards — of ownwards — ownw	height	114 mm
evith side-by-side mounting - forwards - upwards - downwards - at the side - for grounded parts - forwards - upwards - to mm - for grounded parts - forwards - upwards - to mm - to fill be parts - forwards - downwards - downwards - downwards - forwards - upwards - forwards - to mm - to fill be parts - forwards - upwards - downwards - upwards - downwards - downwards - downwards - downwards - downwards - downwards - of mm - downwards - of mm - downwards - of mm - ondoutchors/ Tormials type of electrical connection - for main current clicuit - of rauxiliary and control circuit - of rauxiliary and control circuit - of rauxiliary and control circuit - of magnet coil type of connectable conductor cross-sections - finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without co	width	55 mm
with side-by-side mounting — forwards — upwards — at the side o mm oforwards — at the side oforgrounded parts — forwards — upwards — upwards — upwards — upwards — at the side — downwards — 10 mm — at the side — downwards — oforwards — of mm — oforwards — of mm	depth	130 mm
forwards upwards upwards 10 mm 10	required spacing	
- upwards - downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - forwards - downwards - formain current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - so for magnet coil type of ecorticate connectable conductor cross-sections - for main contacts - solid or stranded - finely stranded with core end processing - 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 without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - f	with side-by-side mounting	
- downwards - at the side	— forwards	10 mm
- at the side • for grounded parts - forwards - upwards - at the side - downwards 10 mm • for live parts - forwards - upwards - ownwards - upwards - downwards - domn - down - down - down - down - d	— upwards	10 mm
• for grounded parts — forwards — upwards — at the side — downwards • for live parts — forwards — towards — upwards — towards — upwards — towards	— downwards	10 mm
- forwards	— at the side	0 mm
- upwards - at the side - downwards • for live parts - forwards - upwards - downwards - downwards - downwards - downwards - at the side - downwards - at the side - downwards - at the side - at contactor for auxiliary contacts - at contactor for auxiliary contacts - at contactor for auxiliary contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stra	 for grounded parts 	
- at the side — downwards — 10 mm — 10	— forwards	10 mm
• for live parts - forwards - upwards - downwards - at the side onactions/ Terminals type of electrical connection • for main current 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 auxillary contacts - solid or stranded - finely stranded with core end processing • for auxillary contacts - solid or stranded - finely stranded with core end processing • fall AWG cables for auxiliary contacts - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts - AWG number as coded connectable conductor cross section for main contacts - AWG number as coded connectable conductor cross section for main contacts - AWG number as coded connectable conductor cross section for main contacts - AWG number as coded connectable conductor	— upwards	10 mm
• for live parts — forwards — upwards — downwards — at the side — at the side — for main current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — at AWG cables for auxiliary contacts — solid or stranded — finely stranded without core end processing — finely stranded without core end processing — at AWG cables 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 processi	— at the side	6 mm
- forwards	— downwards	10 mm
- upwards - downwards - 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 w	for live parts	
- downwards - at the side 6 mm onnections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil spring-type terminals • for main contacts • for main contacts • for main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - at AWG cables for main contacts • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core	— forwards	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 • finely stranded — finely 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 s	— 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 • fin	— 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 • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end proce		6 mm
• 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 • at AWG cables for main contacts • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • AWG number as coded connectable conductor • Output December 1	Connections/ Terminals	
of ro auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts — solid or stranded — at AWG cables for main contacts — finely stranded with core end processing of inely stranded with core end processing osolid or stranded of inely stranded with core end processing of inely stranded with core end processing of inely stranded with core end processing of inely stranded without core end processing of or auxiliary contacts — solid or stranded — finely stranded with core end processing of or auxiliary 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 — at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor at AWG number as coded connectable conductor 	for main current circuit	screw-type terminals
of magnet coil type of connectable conductor cross-sections of or main contacts — solid or stranded — finely stranded with core end processing	 for auxiliary and control circuit 	spring-loaded terminals
type of connectable conductor cross-sections	 at contactor for auxiliary contacts 	Spring-type terminals
 for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts	of magnet coil	Spring-type terminals
- 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 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 • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely 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 - finely stranded without core end processing - AWG cables for auxiliary contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor - AWG number as coded connectable conductor	type of connectable conductor cross-sections	
 — finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing 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 finely stranded with core end processing for auxiliary contacts mely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor at AWG number as coded connectable conductor 	for main contacts	
 at AWG cables for main contacts 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 for auxiliary contacts solid or stranded for auxiliary contacts for auxiliary contacts finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor 20 14 	— solid or stranded	
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 - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor - AWG number as coded connectable conductor		2x (1 25 mm²), 1x (1 35 mm²)
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 — 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 — at AWG cables for auxiliary contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor	at AWG cables for main contacts	2x (18 2), 1x (18 1)
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 - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - sta AWG cables for auxiliary contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor - AWG number as coded connectable conductor - Sulfaction of the su		
 contacts solid or stranded 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 finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing at AWG cables for auxiliary contacts at AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor at AWG number as coded connectable conductor 		1 35 mm²
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 finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor 18 1 		0.5 2.5 mm ²
 finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (20 14) AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor 20 14 		
type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14) • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor 20 14		
 for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14) AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor 20 14 		C.O 2.0 Hilli
 — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts • AWG number as coded connectable conductor cross section for main contacts • AWG number as coded connectable conductor • AWG number as coded connectable conductor 2x (0.5 2.5 mm²) 2x (20 14) 18 1 20 14 		
 finely stranded with core end processing finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor AWG number as coded connectable conductor 18 1 20 14 		2x (0.5
 finely stranded without core end processing at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor AWG number as coded connectable conductor 2x (0.5 2.5 mm²) 18 1 20 14 		
 at AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor AWG number as coded connectable conductor 2x (20 14) 18 1 20 14 		
 AWG number as coded connectable conductor cross section for main contacts AWG number as coded connectable conductor 20 14 		
AWG number as coded connectable conductor 20 14	- at the subject of administry contacto	
COSS SECOND TO SUMMEN COURSES		18 1



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

Special Test Certificate

Type Test Certificates/Test Report





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=3RT2036-3AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2036-3AP00

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3AP00

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2036-3AP00&lang=en

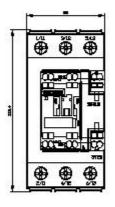
Characteristic: Tripping characteristics, I2t, Let-through current

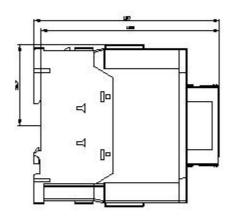
https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-3AP00/char

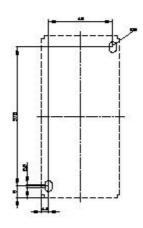
Further characteristics (e.g. electrical endurance, switching frequency)

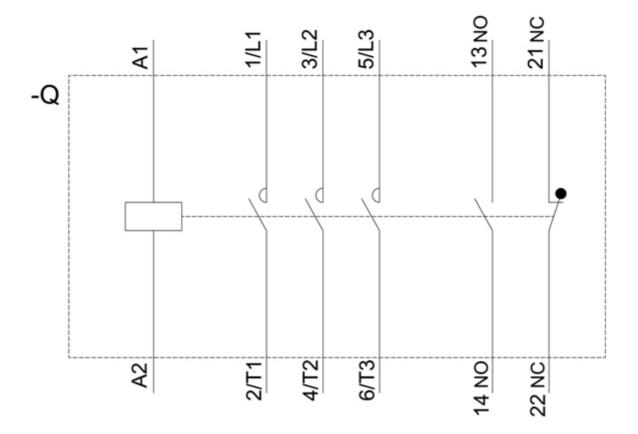
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-3AP00&objecttype=14&gridview=view1











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