SIEMENS

Data sheet

3RT2038-3AF00



Contactor, AC-3, 37 kW / 400 V, 1 NO + 1 NC, 110 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	17.1 W				
per pole	5.7 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	90 A
rated value ● at AC-1	
up to 690 V at ambient temperature 40 °C	90 A
rated value	
— up to 690 V at ambient temperature 60 °C	80 A
rated value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value — at 690 V rated value	80 A 58 A
at AC-4 at 400 V rated value	55 A
• at AC-5a up to 690 V rated value	79.2 A
• at AC-5b up to 400 V rated value	66.4 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	70 A
 up to 400 V for current peak value n=20 rated value 	70 A
 up to 500 V for current peak value n=20 rated value 	70 A
— up to 690 V for current peak value n=20 rated value	58 A
● at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	46.7 A
 — up to 400 V for current peak value n=30 rated value 	46.7 A
 — up to 500 V for current peak value n=30 rated value 	46.7 A
 — up to 690 V for current peak value n=30 rated value 	46.7 A
minimum cross-section in main circuit at maximum AC-1 rated value	35 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 cycles at AC-4 • at 400 V rated value	30 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	
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	30 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	30 A 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 — at 24 V rated value	30 A 24 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	30 A 24 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	30 A 24 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	30 A 24 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	30 A 24 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	30 A 24 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 • 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 • with 2 current paths in series at DC-1	30 A 24 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 • at 690 V rated value operational current • at 1 current path at DC-1 — at 24 V rated value — at 210 V rated value — at 440 V rated value — at 440 V rated value — at 600 V rated value — at 600 V rated value • at 600 V rated value • at 440 V rated value	30 A 24 A 55 A 4.5 A 1 A 0.4 A 0.25 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 210 V rated value at 220 V rated value at 440 V rated value at 600 V rated value at 600 V rated value at 24 V rated value at 110 V rated value	30 A 24 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 • at 1 current path at DC-1 - at 24 V rated value - at 110 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 24 V rated value - at 220 V rated value - at 440 V rated value - at 24 V rated value - at 24 V rated value - at 200 V rated value - at 200 V rated value - at 220 V rated value	30 A 24 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 • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 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 • with 2 current paths in series at DC-1 — at 220 V rated value • with 2 current paths in series at DC-1 — at 220 V rated value — at 110 V rated value — at 24 V rated value — at 440 V rated value	30 A 24 A 55 A 4.5 A 1 A 0.4 A 0.25 A 55 A 45 A 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 • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 210 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 24 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 24 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	30 A 24 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 • 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 24 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 220 V rated value - at 220 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 220 V rated value - at 24 V rated value - at 24 V rated value - at 440 V rated value - at 24 V rated value<	30 A 24 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
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 • at 690 V rated value • 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 440 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 600 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 220 V rated value - at 440 V rated value - at 220 V rated value - at 24 V rated value - at 110 V rated value<	30 A 24 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 • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 220 V rated value - at 220 V rated value - at 600 V rated value - at 24 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated val	30 A 24 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 2.9 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 • at 690 V rated value • at 1 current path at DC-1 - at 24 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 220 V rated value - at 220 V rated value - at 220 V rated value - at 24 V rated value - at 20 V rated value - at 20 V rated value - at 20 V rated value - at 210 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value - at 220 V rated value - at 440 V rated value - at 440 V rated val	30 A 24 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 • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 220 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 220 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 440 V rated value - at 220 V rated value - at 440 V rated value - at 600 V rated value	30 A 24 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 2.9 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 • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 20 V rated value - at 210 V rated value - at 440 V rated value - at 440 V rated value - at 600 V rated value - at 220 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 24 V rated value - at 220 V rated value - at 440 V rated value - at 220 V rated value - at 440 V rated value - at 24 V rated value - at 220 V rated value - at 440 V rated value	30 A 24 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 1 A 0.8 A 55 A 1 A 0.8 A 55 A 1.4 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 • at 690 V rated value operational current • at 1 current path at DC-1 - at 24 V rated value - at 220 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 210 V rated value - at 220 V rated value - at 220 V rated value - at 220 V rated value - at 24 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 220 V rated value - at 440 V rated value - at 600 V rated value	30 A 24 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 2.9 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 	37 kW				
• at AC-3					
— at 230 V rated value	22 kW				
— at 400 V rated value	37 kW				
— at 500 V rated value	37 kW				
— at 690 V rated value	45 kW				
operating power for approx. 200000 operating cycles at AC-4					
at 400 V rated value	15.8 kW				
at 690 V rated value	21.8 kW				
operating apparent power at AC-6a	27.8 kV·A				
• up to 230 V for current peak value n=20 rated value					
• up to 400 V for current peak value n=20 rated value	48.4 kV·A				
• up to 500 V for current peak value n=20 rated value	60.6 kV·A				
• up to 690 V for current peak value n=20 rated value	69.3 kV·A				
 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value 	18.6 kV·A				
 up to 200 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	32.3 kV·A				
• up to 500 V for current peak value n=30 rated value	40.4 kV·A				
• up to 690 V for current peak value n=30 rated value	55.8 kV·A				
short-time withstand current in cold operating state					
up to 40 °C					
 limited to 1 s switching at zero current maximum 	1 298 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	898 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	640 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	414 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	333 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	700 1/h				
• at AC-2 maximum	350 1/h				
• at AC-3 maximum	500 1/h				
• at AC-4 maximum	150 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC				
control supply voltage at AC					
• at 50 Hz rated value	110 V				
operating range factor control supply voltage rated					
value of magnet coil at AC	0.8 11				
at 50 Hz apparent pick-up power of magnet coil at AC	0.8 1.1				
apparent pick-up power of magnet coll at AC • at 50 Hz	190 V·A				
al JUTIZ	100 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
	0.57
elosing delay • at AC	10 00 mg
	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	62 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	5 hp
— at 230 V rated value	15 hp
 for 3-phase AC motor 	
— at 200/208 V rated value	20 hp
— at 220/230 V rated value	25 hp
— at 460/480 V rated value	50 hp
— at 575/600 V rated value	60 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



(415)	(80 kV)				
— with type of assignment 2 required gG: 1	(415 V, 80 kA) gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)				
	(415V,80KA) gG: 10 A (500 V, 1 kA)				
Installation/ mounting/ dimensions					
	0° rotation possible on vertical mounting surface; can be tilted				
	forward and backward by +/- 22.5° on vertical mounting surface				
fastening method screw accord	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715				
• side-by-side mounting Yes					
height 114 m	Im				
width 55 mr	n				
depth 130 m	ım				
required spacing					
with side-by-side mounting					
— forwards 10 mr	n				
— upwards 10 mr	n				
— downwards 10 mr	n				
— at the side 0 mm					
• for grounded parts					
— forwards 10 mr	n				
— upwards 10 mr	10 mm				
— at the side 6 mm					
— downwards 10 mr	10 mm				
• for live parts					
— forwards 10 mr	n				
— upwards 10 mr	10 mm				
— downwards 10 mr	10 mm				
— at the side 6 mm					
Connections/ Terminals					
type of electrical connection					
for main current circuit	-type terminals				
for auxiliary and control circuit spring	-loaded terminals				
at contactor for auxiliary contacts Spring	g-type terminals				
of magnet coil Spring	g-type terminals				
type of connectable conductor cross-sections					
for main contacts					
- solid or stranded 2x (1	35 mm²), 1x (1 50 mm²)				
	25 mm²), 1x (1 35 mm²)				
	3 2), 1x (18 1)				
connectable conductor cross-section for main contacts					
• finely stranded with core end processing 1 3	5 mm²				
connectable conductor cross-section for auxiliary contacts					
	2.5 mm ²				
	1.5 mm ²				
, , , , , , , , , , , , , , , , , , , ,	2.5 mm ²				
type of connectable conductor cross-sections	2.5 mm				
for auxiliary contacts					
	5 2.5 mm²)				
	J 2.J IIIII)				
- solid or stranded 2x (0.	$5 - 1.5 \text{ mm}^2$				
— solid or stranded2x (0.— finely stranded with core end processing2x (0.	5 1.5 mm²)				
— solid or stranded2x (0.— finely stranded with core end processing2x (0.— finely stranded without core end processing2x (0.	5 2.5 mm²)				
solid or stranded2x (0 finely stranded with core end processing2x (0 finely stranded without core end processing2x (0.• at AWG cables for auxiliary contacts2x (20.	5 2.5 mm²)) 14)				
solid or stranded2x (0 finely stranded with core end processing2x (0 finely stranded without core end processing2x (0 finely stranded without core end processing2x (0.• at AWG cables for auxiliary contacts2x (20.• AWG number as coded connectable conductor cross section for main contacts18	5 2.5 mm²)) 14)				
solid or stranded2x (0 finely stranded with core end processing2x (0 finely stranded without core end processing2x (0.• at AWG cables for auxiliary contacts2x (20.• AWG number as coded connectable conductor18	5 2.5 mm²)) 14) 1				

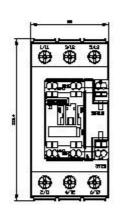


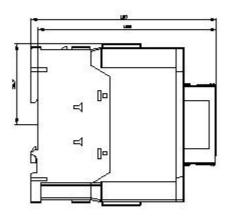
			_				
B10 value with high deman		N 31920	1 000 00	00			
proportion of dangerous f	ailures						
 with low demand rate 	acc. to SN 319	920	40 %				
 with high demand rate 	e acc. to SN 31	920	73 %				
failure rate [FIT] with low demand rate acc. to SN 31920			100 FIT				
product function							
 mirror contact acc. to IEC 60947-4-1 			Yes				
 positively driven oper 	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	20 у				
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-rela	ated switching (DFF	Yes				
Certificates/ approvals							
General Product Approva	ıl					EMC	
(SP) CM		Ű		<u>KC</u>	EHC	RCM	
Declaration of Conformity	/	Test Certific	ates		Marine / Shipping		
<u>Miscellaneous</u>	CE EG-Konf.	<u>Type Tes</u> <u>Certificates/</u> <u>Report</u>		<u>Special Test</u> <u>Certificate</u>	ABS	BUREAU VERITAS	
Marine / Shipping						other	
Lloyds Register urs	PRS	RINA)	RMRS RMRS	DNV-GL DNV-GL	<u>Confirmation</u>	
other							
<u>Confirmation</u>							
urther information							
Information- and Downloa		logs, Brochures,)				
https://www.siemens.com/ic							
Industry Mall (Online orden https://mall.industry.siemen		en/Catalog/produc	t?mlfb=3R	T2038-3AF00			
Cax online generator							
http://support.automation.si				ig=en&mlfb=3RT2	038-3AF00		
Service&Support (Manual https://support.industry.sien							
Image database (product http://www.automation.siem						acros,)	
Characteristic: Tripping c	haracteristics,	, l ² t, Let-through	current	-			

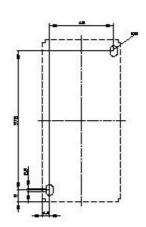
https://support.industry.siemens.com/cs/ww/en/ps/3RT2038-3AF00/char

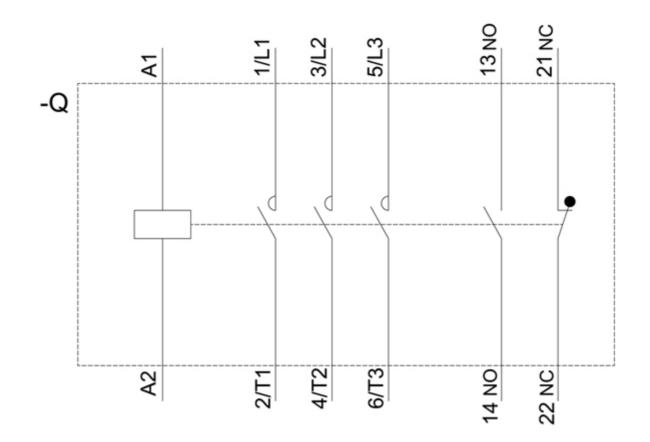
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2038-3AF00&objecttype=14&gridview=view1











last modified:

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