SIEMENS

Data sheet

3RT2045-1AV00



power contactor, AC-3e/AC-3, 80 A, 37 kW / 400 V, 3-pole, 400 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3 $\,$

product brand name SIRUS product brand designation 9x8r2 contactor product type designation 9x8r2 connector \$3 size of contactor \$3 product stension No - function module for communication No - auxiliary switch Yes power loss [V] for rated value of the current 5.3 W - at AC in hot operating state 5.3 W - of main circult with degree of pollution 3 rated value 600 V of main circult with degree of pollution 3 rated value 600 V - of auxiliary circult with degree of pollution 3 rated value 600 V - of auxiliary circult with degree of pollution 3 rated value 600 V - of auxiliary circult rated value 6kV - of auxiliary since bit evelopes 6kV - of auxiliary since bit evelopes 6kV - of auxiliary circult rated value 6kV - of auxiliary circult rated value 10.3g / 5 ms, 6.g / 10 m	473	
product type designation 3RT2 General technical data	product brand name	SIRIUS
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Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	reference code according to IEC 81346-2	Q
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit	ambient temperature	
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relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	during storage	-55 +80 °C
Main circuit	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

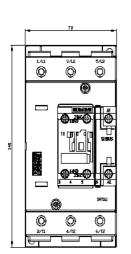
number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	1 000 V
 at AC-3e rated value maximum 	1 000 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated 	125 A
value	
• at AC-1	
 — up to 690 V at ambient temperature 40 °C rated value 	125 A
— up to 690 V at ambient temperature 60 °C rated	105 A
value	
• at AC-3	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	80 A
— at 500 V rated value	80 A
— at 690 V rated value	58 A
— at 1000 V rated value	30 A
 at AC-4 at 400 V rated value 	66 A
• at AC-5a up to 690 V rated value	110 A
 at AC-5b up to 400 V rated value 	80 A
• at AC-6a	
 — up to 230 V for current peak value n=20 rated value 	80 A
 — up to 400 V for current peak value n=20 rated value 	80 A
 — up to 500 V for current peak value n=20 rated value 	80 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 	54 A
 — up to 400 V for current peak value n=30 rated value 	54 A
 — up to 500 V for current peak value n=30 rated value 	54 A
 — up to 690 V for current peak value n=30 rated value 	54 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	34 A
at 690 V rated value	24 A
operational current	2.77
• at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	10 A
— at 440 V rated value	1.8 A
— at 600 V rated value	1 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 110 V rated value	100 A
— at 220 V rated value	80 A
— at 440 V rated value	4.5 A

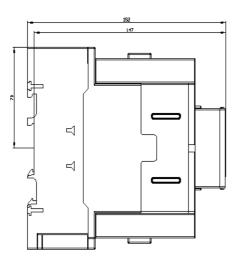
at 80 V miles value 228 A - at 81 V rates value 400 A - at 81 V rates value 40 A - at 80 V rates value 50 C S - at 80 V rates value 50 C C S - at 80 V rates value 50 C S - at 80 V rates value 50 C S - at 80 V rates value 50 C C S - at 80 V rates value 50 C C S - at 80 V rates value 50 C C C S - at 80 V rates value 50 C C C S - at 80 V rates value 50 C C C C S - at 80 V rates value 50 C C C C C C C C C C C C C C C C C C		
	— at 600 V rated value	2.6 A
	-	
# 220 V rade value1 A # 120 V rade value006 A # 120 V rade value100 A # 120 V rade value100 A # 120 V rade value100 A # 120 V rade value000 A # 120 V rade value020 A		
→ e80 V rated value 0.06 Å → with 2 current paths in series at DC-3 at DC-3 0.01 Å → at 34 V vited value 0.00 Å → at 60 V vited value 0.10 Å → at 60 V vited value 0.10 Å → at 60 V vited value 0.00 Å → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value → at 60 V vited value 2.10 Vited value		
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- at 24 Vrated value100 A- at 110 Vrated value100 A- at 220 Vrated value00 A- at 220 Vrated value00 A- at 420 Vrated value0.22 A- at 600 Vrated value0.16 A- at 600 Vrated value100 A- at 724 Vrated value100 A- at 724 Vrated value100 A- at 724 Vrated value00 A- at 724 Vrated value0.9 A- at 725 Vrated value25 A- at 725 Vrated value25 A- at 725 Vrated value25 AW- at 726 Vrated value37 AW- at 727 Vrated value25 AW- at 728 Vrated value37 AW- at 729 Vrated value37 AW- at 720 Vrated value <td></td> <td>0.06 A</td>		0.06 A
• with 3 current path in series at DC-3 at DC-5		
		0.16 A
		400 A
at 800 V rated value0.35 Åoperating power37 kW- at 230 V rated value37 kW- at 230 V rated value22 kW- at 400 V rated value37 kW- at 600 V rated value45 kW- at 600 V rated value45 kW- at 600 V rated value55 kW- at 600 V rated value55 kW- at 700 V rated value55 kW- at 700 V rated value22 kW- at 700 V rated value25 kW- at 600 V rated value37 kW- at 600 V rated value21 kW• up to 230 V for current pask value n=20 rated value69 kVA• up to 230 V for current pask value n=20 rated value69 kVA• up to 630 V for current pask value n=30 rated value60 kVA• up to 630 V for current pask value n=30 rated value51 kVA• up to 630 V for current pask value n=30 rated value43 k kVA• up to 630 V for current pask value n=30 rated value53 k kVA• u		
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short-time withstand current in cold operating state up to 40 °C1 500 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 500 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum1 186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum851 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum538 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum423 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency • at AC5 000 1/h		
40 °C • limited to 1 s switching at zero current maximum 1 500 A; Use minimum cross-section acc. to AC-1 rated value • limited to 5 s switching at zero current maximum 1 186 A; Use minimum cross-section acc. to AC-1 rated value • limited to 10 s switching at zero current maximum 851 A; Use minimum cross-section acc. to AC-1 rated value • limited to 30 s switching at zero current maximum 538 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching at zero current maximum 423 A; Use minimum cross-section acc. to AC-1 rated value • limited to 60 s switching frequency 423 A; Use minimum cross-section acc. to AC-1 rated value • at AC 5 000 1/h operating frequency 5 000 1/h		04.0 KVA
• limited to 5 s switching at zero current maximum1 186 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum851 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum538 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum423 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency5 000 1/h• at AC5 000 1/h		
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no-load switching frequency 5 000 1/h • at AC 5 000 1/h	 limited to 30 s switching at zero current maximum 	538 A; Use minimum cross-section acc. to AC-1 rated value
• at AC 5 000 1/h	 limited to 60 s switching at zero current maximum 	423 A; Use minimum cross-section acc. to AC-1 rated value
operating frequency	no-load switching frequency	
	• at AC	5 000 1/h
• at AC-1 maximum 900 1/h	operating frequency	
	• at AC-1 maximum	900 1/h

• at AC-2 maximum	400 1/h
• at AC-3 maximum	1 000 1/h
• at AC-3e maximum	1 000 1/h
• at AC-4 maximum	300 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	400 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 	296 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.61
apparent holding power of magnet coil at AC	
• at 50 Hz	19 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.38
closing delay	
• at AC	13 50 ms
opening delay	
• at AC	10 21 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 	6 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	77 A
● at 600 V rated value	62 A
yielded mechanical performance [hp]	
 for single-phase AC motor 	
— at 110/120 V rated value	7.5 hp
— at 230 V rated value	15 hp

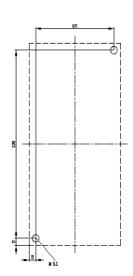
	• for 3-phase AC motor			
	 for 3-phase AC motor at 200/208 V rated value 	25 hp		
contact rating of auxiliary contracts according to UL A600 / P600 Short durantly protection Gesign of the tase link Gesign of the tase link - with type of condination i required gG: 250 A (690 V, 100 kA), akt. 150 A (690 V, 100 kA), BS88: 200 A (415 V, 80 K), 90 K) - with type of assignment 2 required gG: 10A (690 V, 100 kA), akt. 150 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) - with type of assignment 2 required gG: 10A (690 V, 100 kA), akt. 150 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) - with type of assignment 2 required gG: 10A (800 V, 100 kA), akt. 150 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) - with type of assignment 2 required gG: 10A (800 V, 100 KA), akt. 150 A (690 V, 100 kA), BS88: 125A (415V, 80 KA) - for informating dimensions gG: 10A (800 V, 10A) gAtternation auxiliary atternation atternation auxiliary atternatexi. So mmi				
Short-Circuit protection design of the fuse link e vish or circuit protection of the main circuit - with type of coordination 1 required e vish or circuit protection of the main circuit e vish of cassignment 2 required e vish sole routing visit cassis 2 visit of visit visit of visit vis		•		
design of the fuse link I or stort-circuit protection of the sum dircuit with type of coordination 1 required ScoA (660 V, 100 kA), aki: 150 A (650 V, 100 kA), BS88: 200 A (415 V, 80 kA) of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit protection of the auxiliary with required of a short-circuit multification of the auxiliary with required of a short-circuit multification of a short-circuit multification of a short-circuit multification of a short-circuit multification of a short-circuit of a short-circui		A6007 P600		
with type of coordination 1 requiredgG: 20 A (80 V, 100 kA), abt: 160 A (800 V, 100 kA), ISSBE: 200 A (415 V, 80 RA)with type of assignment 2 required9G: 160 A (800 V, 100 kA), abt: 80A (800 V, 100 kA), ISSBE: 125A (415V 800 KA)is of the autility system required9G: 160 A (800 V, 100 kA), abt: 80A (800 V, 100 kA), ISSBE: 125A (415V 800 KA)is of the autility system required9G: 160 A (800 V, 100 kA), abt: 80A (800 V, 100 kA), ISSBE: 125A (415V 800 KA)is of the autility system required9G: 100 A (800 V, 10 kA), abt: 80A (800 V, 100 kA), ISSBE: 125A (415V 800 KA)is of the autility system required spaceserve and sanp-on mounting and 35 mm. DIN rail according to DIN EN 807 15is of the autility system required space100 mmis of the sole100 mm (rowards100 mm (rowards20 mm (rowards100 mm (rowards100 mm (rowards20 mm (rowards20 mm (rowards20 mm (rowards100 mm (rowards20 mm (rowards20 mm (rowards <t< td=""><td>-</td><td></td></t<>	-			
ich ich wh type of assignment 2 required gC: 100A (600V, 100AA), abl: 80A (600V, 100AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 100AA), abl: 80A (600V, 100AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 100AA), abl: 80A (600V, 100AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 10AA), abl: 80A (600V, 100AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 10AA), abl: 80A (600V, 100AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 10AA), abl: 80A (600V, 100AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 10AA), abl: 80A (600V, 10AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 10AA), abl: 80A (600V, 10AA), BSB8: 125A (415V, 80AA) installation/mounting/dimensions ich0A (600V, 10AA), BSB8: 125A (415V, 80AA) installatich0A (600V, 100AA) ich0A (600V, 10AA), BSB8: 12				
• or short-circuit protoction of the auxiliary switch required Installation/mounting/dimensions 9C: 10 A (500 V, 1 kA) Installation/mounting/dimensions ************************************	- with type of coordination 1 required			
Installation/mounting dimensions +/10% 'rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and backward by +/-22.5% on vertical mounting surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surface; can be tilted forward and bis doc by surfa	 — with type of assignment 2 required 	gG: 160A (690V,100kA), aM: 80A (690V,100kA), BS88: 125A (415V,80kA)		
meanting position +:180° rotation possible on vertical mounting surfaces festening method screw and snap-on mounting outlos • olde by side mounting Yes height 40 mm with side-by-side mounting To mm depth 182 mm • with side-by-side mounting - • with side-by-side mounting - - upwards 20 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm	 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)		
backward by +/- 22° on vertical mounting surface fastening method Server wan snap-on mounting on 35 mm DIN rail according to DIN EN 60715 height 140 mm height 140 mm required spacing 70 mm required spacing 70 mm - forwards 20 mm - forwards 20 mm - forwards 20 mm - downwards 10 mm - downwards 20 mm - forwards 20 mm - forwards 20 mm - forwards 20 mm - downwards 10 mm - downwards 50 mm - forwards 20 mm - downwards 50 mm - forwards 20 mm - downwards 50 mm - forwards 20 mm - downwards <th< td=""><td>Installation/ mounting/ dimensions</td><td></td></th<>	Installation/ mounting/ dimensions			
fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • elde by-side mounting Yes • elde by-side mounting 70 mm • edgeth 160 mm • edgeth 160 mm • edgeth 20 mm • edgeth 00 mm - eqwards 20 mm - eqwards 00 mm - downwards 00 mm - downwards 00 mm - downwards 10 mm - downwards <	mounting position			
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height 140 nm width 70 mm depth 70 mm required spacing 70 mm • with side-by-side mounting 20 mm - (nowards 20 mm - upwards 10 mm - downwards 00 mm - downwards 0 mm - downwards 0 mm - downwards 10 mm - upwards 10 mm - downwards 10 mm - downwards 10 mm - upwards Screw-type terminals - downwards Screw-type terminals screw-type terminals Screw-type terminals if or auxiliary contacts Screw-type terminals if one stranded Screw-type t	-			
widh 70 mm depth 152 nm required spacing 152 nm - (lowards 20 mm - (lowards 10 mm - downwards 10 mm - downwards 10 mm - downwards 00 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - downards 20 mm				
depth 152 mm required spacing				
required spacing • with side-by-side mounting - downwards 20 mm - upwards 10 mm - downwards 0 mm - downwards 0 mm - downwards 0 mm - for grounded parts 0 mm - upwards 10 mm - forwards 20 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm - solid outortor cros-sec				
• with side-by-side mounting	-	152 mm		
- forwards20 mm- upwards10 mm- downwards10 mm- at the side0 mm- at the side0 mm- upwards20 mm- upwards10 mm- upwards10 mm- upwards10 mm- downwards20 mm- downwards10 mm- downwards2 crew-type terminals- for auxiliary and control circuitscrew-type terminals- of magnet coilScrew-type terminals- for auxiliary contacts2 c 2 5 35 mm²) 1x (2 5 50 mm²)- solid or standed with core end processing2 5 50 mm²- solid or standed with core end processing0 5 2 5 mm²- solid or standed with core end processing2 (0 5 1 5 mm²) 2x (0 7 5 2 5 mm²)-				
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- downwards10 mm• for live parts20 mm- forwards20 mm- upwards10 mm- downwards10 mm- downwards10 mm- at the side10 mm- at the side0 mmConnections/ Terminalsscrew-type terminalstype of electrical connectionscrew-type terminals• for main current circuitscrew-type terminals• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• of magnet collScrew-type terminals• of magnet collscrew-type terminals• finely stranded with core end processing2.5 16 mm²• solidstranded• solids 70 mm²• sitranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contactsstranded• for auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)• for Auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)• for Auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)• for Auxiliary contacts2x (0.5 1.5 mm², 2x (0.75 2.5 mm²)<	— upwards	10 mm		
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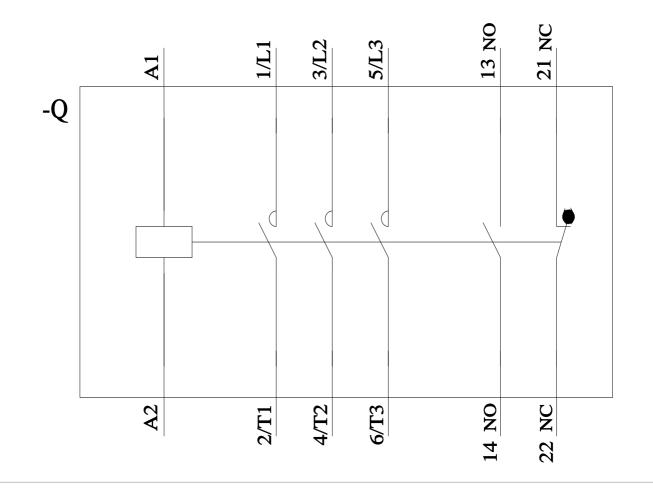
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