SIEMENS

Data sheet

3RT1066-6AP36



power contactor, AC-3e/AC-3 300 A, 160 kW / 400 V, AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal

size of contactor S10 product extension No • function module for communication No • auxiliary switch Yes power loss [W] for rated value of the current 66 W • at AC in hot operating state 66 W • at AC in hot operating state per pole 22 W • without load current share typical 7.4 W insulation voltage 1 000 V • of main circuit with degree of pollution 3 rated value 500 V • of main circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit with degree of pollution 3 rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 8 kV • of auxiliary circuit rated value 1000 V • of auxiliary circuit rated value 8 kV • at AC 8,5g / 5 ms, 4,2g / 10 ms • at AC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms <td< th=""><th></th><th></th></td<>				
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relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 95 %	during operation	-25 +60 °C		
relative humidity at 55 °C according to IEC 60068-2-30 95 %	during storage	-55 +80 °C		
	relative humidity minimum	10 %		
		95 %		

Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
• at AC-3 rated value maximum	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 value 	330 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	330 A
— up to 690 V at ambient temperature 60 °C rated value	300 A
— up to 1000 V at ambient temperature 40 °C rated value	150 A
— up to 1000 V at ambient temperature 60 °C rated value	150 A
• at AC-3	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-3e	
— at 400 V rated value	300 A
— at 500 V rated value	300 A
— at 690 V rated value	280 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	280 A
 at AC-5a up to 690 V rated value 	290 A
 at AC-5b up to 400 V rated value 	249 A
● at AC-6a	
— up to 230 V for current peak value n=20 rated value	292 A
— up to 400 V for current peak value n=20 rated value	292 A
— up to 500 V for current peak value n=20 rated value	292 A
— up to 690 V for current peak value n=20 rated value	280 A
— up to 1000 V for current peak value n=20 rated value	95 A
• at AC-6a	
 — up to 230 V for current peak value n=30 rated value 	195 A
 — up to 400 V for current peak value n=30 rated value 	195 A
 — up to 500 V for current peak value n=30 rated value 	195 A
 — up to 690 V for current peak value n=30 rated value 	195 A
 — up to 1000 V for current peak value n=30 rated value 	95 A
minimum cross-section in main circuit at maximum AC-1 rated value	185 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	125 A
• at 690 V rated value	115 A
operational current	
 at 1 current path at DC-1 	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	33 A
— at 220 V rated value	3.8 A
— at 440 V rated value	0.9 A
— at 600 V rated value	0.6 A
 with 2 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A

— at 220 V rated value	300 A
— at 440 V rated value	4 A
— at 600 V rated value	2 A
 with 3 current paths in series at DC-1 	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	11 A
— at 600 V rated value	5.2 A
 at 1 current path at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 60 V rated value	11 A
— at 220 V rated value	0.6 A
— at 440 V rated value	0.18 A
— at 600 V rated value	0.125 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	2.5 A
— at 440 V rated value	0.65 A
— at 600 V rated value	0.37 A
• with 3 current paths in series at DC-3 at DC-5	
— at 24 V rated value	300 A
— at 60 V rated value	300 A
— at 110 V rated value	300 A
— at 220 V rated value	300 A
— at 440 V rated value	1.4 A
— at 600 V rated value	0.75 A
operating power	
• at AC-3	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
• at AC-3e	
— at 230 V rated value	90 kW
— at 400 V rated value	160 kW
— at 500 V rated value	200 kW
— at 690 V rated value	250 kW
— at 1000 V rated value	132 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	71 kW
• at 690 V rated value	112 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	110 000 kVA
 up to 400 V for current peak value n=20 rated value 	200 000 VA
 up to 500 V for current peak value n=20 rated value 	250 000 VA
 up to 690 V for current peak value n=20 rated value 	330 000 VA
 up to 1000 V for current peak value n=20 rated value 	
	160 000 VA
operating apparent power at AC-6a	
operating apparent power at AC-6aup to 230 V for current peak value n=30 rated value	
operating apparent power at AC-6a	160 000 VA
operating apparent power at AC-6aup to 230 V for current peak value n=30 rated value	160 000 VA 70 000 VA
 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated value 	160 000 VA 70 000 VA 130 000 VA 160 000 VA 230 000 VA
 operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value up to 500 V for current peak value n=30 rated value 	160 000 VA 70 000 VA 130 000 VA 160 000 VA

 limited to 1 s switching at zero current maximum 	5 524 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum 	4 579 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 10 s switching at zero current maximum 	3 153 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum 	1 883 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	1 445 A; Use minimum cross-section acc. to AC-1 rated value				
no-load switching frequency					
• at AC	2 000 1/h				
• at DC	2 000 1/h				
operating frequency					
• at AC-1 maximum	750 1/h				
• at AC-2 maximum	250 1/h				
• at AC-3 maximum	500 1/h				
• at AC-3e maximum	500 1/h				
• at AC-4 maximum	130 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	AC/DC				
control supply voltage at AC					
• at 50 Hz rated value	220 240 V				
• at 60 Hz rated value	220 240 V				
control supply voltage at DC					
rated value	220 240 V				
operating range factor control supply voltage rated value of magnet coil at DC					
initial value	0.8				
● full-scale value	1.1				
operating range factor control supply voltage rated value of magnet coil at AC					
• at 50 Hz	0.8 1.1				
• at 60 Hz	0.8 1.1				
design of the surge suppressor	with varistor				
apparent pick-up power of magnet coil at AC	500.1/4				
• at 50 Hz • at 60 Hz	590 VA				
inductive power factor with closing power of the coil	590 VA				
• at 50 Hz	0.9				
• at 60 Hz	0.9				
apparent holding power of magnet coil at AC					
• at 50 Hz	6.7 VA				
• at 60 Hz	6.7 VA				
inductive power factor with the holding power of the coil					
• at 50 Hz	0.9				
• at 60 Hz	0.9				
closing power of magnet coil at DC	650 W				
holding power of magnet coil at DC	7.4 W				
closing delay					
• at AC	30 95 ms				
• at DC	30 95 ms				
opening delay					
• at AC	40 80 ms				
• at DC	40 80 ms				
arcing time	10 15 ms				
control version of the switch operating mechanism	Standard A1 - A2				
Auxiliary circuit					
number of NC contacts for auxiliary contacts instantaneous contact	2				
number of NO contacts for auxiliary contacts instantaneous contact	2				
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 600 V/ retail value	4.0				
at 690 V rated value	1A				
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	302 A				
at 600 V rated value	289 A				
yielded mechanical performance [hp]					
 for 3-phase AC motor 					
— at 200/208 V rated value	100 hp				
— at 220/230 V rated value	125 hp				
— at 460/480 V rated value	250 hp				
— at 575/600 V rated value	300 hp				
contact rating of auxiliary contacts according to UL	A600 / Q600				
Short-circuit protection					
design of the fuse link					
 for short-circuit protection of the main circuit 					
 — with type of coordination 1 required 	gG: 500 A (690 V, 100 kA)				
 — with type of assignment 2 required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50				
	kA) gG: 10 A (500 V, 1 kA)				
a for abort aircuit protection of the auviliant awitch required					
for short-circuit protection of the auxiliary switch required	go. 1077(000 V, 1107)				
Installation/ mounting/ dimensions					
	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back				
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface				
Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back				
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 0 mm 20 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 0 mm 20 mm 10 mm 20 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — upwards — at the side — downwards — upwards — upwards — upwards — upwards — downwards — upwards — upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — forwards — at the side — forwards — for live parts	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — downwards — at the side — downwards — at the side — downwards — for live parts — forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 10 mm 20 mm 20 mm 10 mm 20 mm 20 mm 20 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — forwards — at the side — forwards — at the side — forwards — at the side — forwards — for live parts	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — at the side • for grounded parts — forwards — upwards — at the side — downwards — upwards — at the side — downwards • for live parts — forwards — upwards — downwards • downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm 10 mm				
Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — downwards — a the side • for grounded parts — forwards — upwards — at the side • for grounded parts — forwards — at the side — downwards — at the side — forwards — at the side — downwards — upwards — upwards — upwards — upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 210 mm 145 mm 202 mm 20 mm 10 mm 20 mm 20 mm 10 mm 20 mm 10 mm 20 mm 10 mm 10 mm				

type of electrical conr	nection						
 for main current 			Connection bar	Connection bar			
 for auxiliary and 	control circuit		screw-type termir	nals			
 at contactor for a 	auxiliary contacts		Screw-type termin	nals			
 of magnet coil 			Screw-type termin				
width of connection b	ar		25 mm				
thickness of connecti			6 mm				
diameter of holes			11 mm				
number of holes			1				
	or cross-section for mair	ontacts					
stranded			70 240 mm²				
	or cross-section for auxi	liary contacts	10 210 1111				
 solid or stranded 		nary contacts	$0.5 4 \text{ mm}^2$				
	vith core end processing		0.5 4 mm² 0.5 2.5 mm²				
	onductor cross-sections	•	0.0 2.0 mm				
		•					
 for auxiliary cont 	acts		0x (0 E 1 E mm	2) 0x (0 75	0 E mm ²) may 0x (0 ZE	4 mana2)	
— solid					. 2.5 mm ²), max. 2x (0.75		
— solid or stra			• • •	· · · ·	. 2,5 mm²), max. 2x (0,75	4 mm²)	
2	ded with core end process	ing	2x (0.5 1.5 mm				
	for auxiliary contacts		2x (20 16), 2x ((18 14), 1x	12		
AWG number as code section	ed connectable conducto	or cross					
	acto		10 14				
for auxiliary cont			18 14				
Safety related data							
product function							
	cording to IEC 60947-4-1		Yes				
	operation according to IEC		No				
	mand rate according to SN		1 000 000				
	nterval or service life acco	rding to IEC	20 a				
61508							
-	the front according to I		IP00; IP20 with be			,	
•	he front according to IEC	60529	finger-safe, for ve	ertical contact	from the front with box ter	rminal/cover	
suitability for use							
 safety-related sw 	vitching OFF		Yes				
Certificates/ approvals							
General Product App	roval						
		<u>Confirmatio</u>		Ð	KC	EHC	
EMC	Functional Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates		
RCM	Type Examination Cer- tificate	CE EG-Konf.	U	K	Type Test Certific- ates/Test Report	<u>Special Test Certific-</u> <u>ate</u>	
Test Certificates	Marine / Shipping						
<u>Miscellaneous</u>	ABS	Lloyds Register uis	Ģ	TRS .	RMRS	ONV-GL	
other					Railway		
Confirmation	Miscellaneous	Miscellaneou	us <u>Confir</u>	rmation	Vibration and Shock	Special Test Certific-	
2DT106664D26					Outriestus	hanga without nation	

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Environmental Confirmations

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RT1066-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1066-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AP36

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

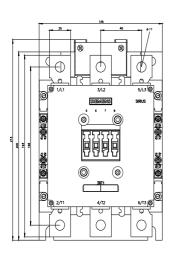
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1066-6AP36&lang=en

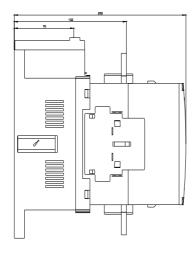
Characteristic: Tripping characteristics, I²t, Let-through current

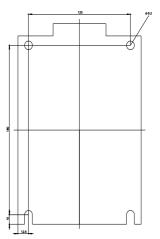
https://support.industry.siemens.com/cs/ww/en/ps/3RT1066-6AP36/char

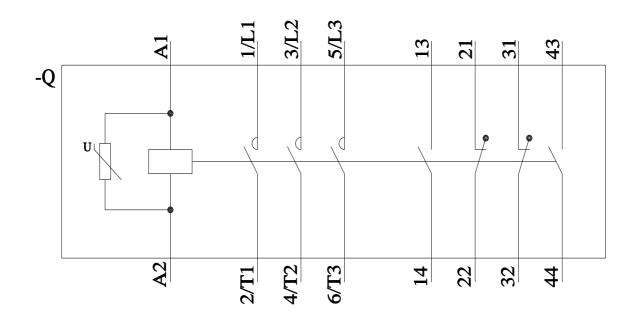
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1066-6AP36&objecttype=14&gridview=view1









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