SIEMENS

Data sheet

3RT1065-2AF36



Power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 110-127 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional Spring-type terminal

product brand name	SIRIUS		
product designation	Power contactor		
product type designation	3RT1		
General technical data			
size of contactor	S10		
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	54 W		
per pole	18 W		
power loss [W] for rated value of the current without load current share typical	7.4 W		
surge voltage resistance			
 of main circuit rated value 	8 kV		
 of auxiliary circuit rated value 	6 kV		
maximum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1	690 V		
shock resistance at rectangular impulse			
• at AC	8,5g / 5 ms, 4,2g / 10 ms		
• at DC	8,5g / 5 ms, 4,2g / 10 ms		
shock resistance with sine pulse			
• at AC	13,4g / 5 ms, 6,5g / 10 ms		
• at DC	13,4g / 5 ms, 6,5g / 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		
Substance Prohibitance (Date)	01.05.2012 00:00:00		
Ambient conditions			
installation altitude at height above sea level maximum	2 000 m		
ambient temperature			
during operation	-25 +60 °C		
during storage	-55 +80 °C		
relative humidity minimum	10 %		
relative humidity at 55 °C acc. to IEC 60068-2-30	95 %		

maximum	
Main circuit	
	3
number of poles for main current circuit number of NO contacts for main contacts	3
operating voltage at AC-3 rated value maximum	1 000 V
 operational current at AC-1 at 400 V at ambient temperature 40 °C 	330 A
rated value ● 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	265 A
— at 500 V rated value	265 A
— at 690 V rated value	265 A
— at 1000 V rated value	95 A
• at AC-4 at 400 V rated value	230 A
 at AC-5a up to 690 V rated value 	290 A
• at AC-5b up to 400 V rated value	219 A
• at AC-6a	
 up to 230 V for current peak value n=20 rated value 	265 A
— up to 400 V for current peak value n=20 rated value	265 A
 — up to 500 V for current peak value n=20 rated value 	265 A
 — up to 690 V for current peak value n=20 rated value 	265 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 	184 A
 — up to 400 V for current peak value n=30 rated value 	184 A
— up to 500 V for current peak value n=30 rated value	184 A
— up to 690 V for current peak value n=30 rated value	184 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	117 A
at 690 V rated value	105 A
operational current	
at 1 current path at DC-1	
— at 24 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
	0.9 A 0.6 A
— at 600 V rated value	0.0 A
with 2 current paths in series at DC-1	200 A
— at 24 V rated value	300 A

 at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	300 A 300 A			
— at 440 V rated value				
— at 600 V rated value	4 A			
	2 A			
 with 3 current paths in series at DC-1 				
— at 24 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			
operational current				
 at 1 current path at DC-3 at DC-5 				
— at 24 V rated value	300 A			
— at 110 V rated value	3 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 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 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	75.114			
— at 230 V rated value	75 kW			
— at 400 V rated value	132 kW			
— at 500 V rated value	160 kW			
— at 690 V rated value	250 kW			
— at 1000 V rated value operating power for approx. 200000 operating cycles	132 kW			
at AC-4				
• at 400 V rated value	66 kW			
• at 690 V rated value	102 kW			
operating apparent power at AC-6a				
• up to 230 V for current peak value n=20 rated value	100 000 kV·A			
 up to 400 V for current peak value n=20 rated value 	180 000 V·A			
 up to 500 V for current peak value n=20 rated value 	220 000 V·A			
 up to 690 V for current peak value n=20 rated value 	310 000 V·A			
 up to 1000 V for current peak value n=20 rated value 	160 000 V·A			
operating apparent power at AC-6a				
 up to 230 V for current peak value n=30 rated value 	70 000 V·A			
 up to 400 V for current peak value n=30 rated value 	120 000 V·A			
 up to 500 V for current peak value n=30 rated value 	150 000 V·A			
 up to 690 V for current peak value n=30 rated value 	220 000 V·A			
 up to 1000 V for current peak value n=30 rated value 	160 000 V·A			
short-time withstand current in cold operating state up to 40 °C				
up to 40 °C	4 880 A; Use minimum cross-section acc. to AC-1 rated value			
	4 880 A; Use minimum cross-section acc. to AC-1 rated value 4 045 A; Use minimum cross-section acc. to AC-1 rated value			

 limited to 30 s switching at zero current maximum 	1 664 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 60 s switching at zero current maximum 	1 276 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	800 1/h		
• at AC-2 maximum	300 1/h		
• at AC-3 maximum	700 1/h		
• at AC-4 maximum	130 1/h		
Control circuit/ Control			
	AC/DC		
type of voltage of the control supply voltage			
control supply voltage at AC	440 407.1/		
at 50 Hz rated value	110 127 V		
at 60 Hz rated value	110 127 V		
control supply voltage at DC			
rated value	110 127 V		
operating range factor control supply voltage rated			
value of magnet coil at DC	0.0		
• 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			
• at 50 Hz	590 V·A		
• at 60 Hz	590 V·A		
inductive power factor with closing power of the coil			
• at 50 Hz	0.9		
• at 60 Hz	0.9		
apparent holding power of magnet coil at AC			
• at 50 Hz	6.7 V·A		
• at 60 Hz	6.7 V·A		
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			
	40 80 ms		
• at AC	40 80 ms 40 80 ms		
• at DC			
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 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	2 A 1 A			
at 600 V rated value				
operational current at DC-13	0.15 A			
at 24 V rated value	10.4			
	10 A			
at 48 V rated value	2 A 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	240 A			
 at 600 V rated value 	242 A			
yielded mechanical performance [hp]				
• for 3-phase AC motor				
— at 200/208 V rated value	75 hp			
— at 220/230 V rated value	100 hp			
— at 460/480 V rated value				
— at 575/600 V rated value	200 hp			
	250 hp			
contact rating of auxiliary contacts according to UL	A600 / Q600			
Chart size vit protoction				
Short-circuit protection				
design of the fuse link				
design of the fuse linkfor short-circuit protection of the main circuit				
 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)			
design of the fuse linkfor short-circuit protection of the main circuit	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415			
 design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required 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)			
 design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415			
 design of the fuse link for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA)			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	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)			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	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) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	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) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	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) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting	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) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes			
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width	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) 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			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth	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) 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			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing	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) 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			
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting	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) 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			
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design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — upwards — at the side	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) 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 10 mm			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts	 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) 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 0 mm 			
design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - forwards	 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) 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 10 mm 0 mm 20 mm 			
design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting — forwards — upwards — at the side • for grounded parts — upwards — upwards — upwards — upwards	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) 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			
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design of the fuse link • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - at the side - downwards - at the side - downwards - at the side - forwards - notwards - ownwards - forwards - forwards - forwards - forwards - for live parts - forwards	 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) 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 10 mm 10 mm 20 mm 10 mm 20 mm 10 mm 20 mm 			
design of the fuse link • for short-circuit protection of the main circuit with type of coordination 1 required with type of assignment 2 required • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting height width depth required spacing • with side-by-side mounting - forwards - upwards - at the side • for grounded parts - at the side - downwards - at the side - downwards - at the side - forwards - upwards - the side - forwards - ownwards - ownwards - for live parts	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) 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			

— downwards	10 mm				
— at the side	10 mm				
Connections/ Terminals					
width of connection bar	25 mm				
thickness of connection bar	6 mm				
diameter of holes	11 mm				
number of holes	1				
type of electrical connection					
for main current circuit	Connection bar				
 for auxiliary and control circuit 	spring-loaded terminals				
 at contactor for auxiliary contacts 	Spring-type terminals				
of magnet coil	Spring-type terminals				
type of connectable conductor cross-sections					
 at AWG cables for main contacts 	2/0 500 kcmil				
connectable conductor cross-section for main					
contacts					
stranded	70 240 mm²				
connectable conductor cross-section for auxiliary contacts					
 solid or stranded 	0.25 2.5 mm ²				
 finely stranded with core end processing 	0.25 1.5 mm ²				
 finely stranded without core end processing 	0.25 2.5 mm ²				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid	2x (0.25 2.5 mm ²)				
— solid or stranded	2x (0,25 2,5 mm ²)				
 finely stranded with core end processing 	2x (0.25 1.5 mm ²)				
— finely stranded without core end processing	2x (0.25 2.5 mm ²)				
at AWG cables for auxiliary contacts	2x (24 14)				
AWG number as coded connectable conductor cross section					
for auxiliary contacts	24 14				
Safety related data					
product function mirror contact acc. to IEC 60947-4-1	Yes				
B10 value with high demand rate acc. to SN 31920	1 000 000				
product function positively driven operation acc. to IEC	No				
60947-5-1					
protection class IP on the front acc. to IEC 60529	IP00; IP20 with box terminal/cover				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover				
suitability for use					
 safety-related switching OFF 	Yes				
Certificates/ approvals					
General Product Approval	EMC				
	KC PAP 🛆				
(SP) (CCC) (UL)	FHI 🖉				
Functional Safety/Safety of Test Certificates	Marine / Shipping				
Machinery					
Type Examination Special Test Certific- Type Test Ce					
Certificate ate ates/Test Re	eport (Ref)				
	ABS RMRS EWILCOM				

other				Railway
Miscellaneous	Confirmation	Confirmation	Miscellaneous	<u>Special Test Certific-</u> ate

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=3RT1065-2AF36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2AF36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AF36

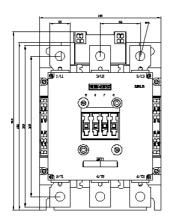
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

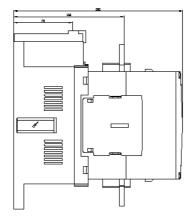
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2AF36&lang=en

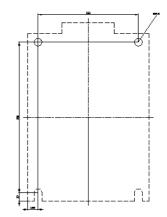
Characteristic: Tripping characteristics, I2t, Let-through current

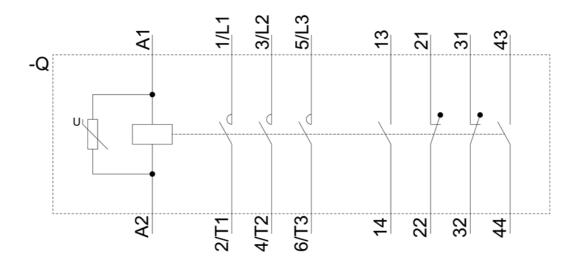
https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AF36/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2AF36&objecttype=14&gridview=view1









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