SIEMENS

Data sheet 3RT2017-2LF41



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V DC, 0.7-1.25 * Us, with integrated varistor, auxiliary contacts: 1 NO, spring-loaded terminal, size: S00

product brand name	SIRIUS	
product designation	Coupling contactor	
product type designation	3RT2	
General technical data		
size of contactor	S00	
product extension		
 function module for communication 	No	
auxiliary switch	No	
power loss [W] for rated value of the current		
 at AC in hot operating state 	1.5 W	
 at AC in hot operating state per pole 	0.5 W	
 without load current share typical 	2.8 W	
insulation voltage		
 of main circuit with degree of pollution 3 rated value 	690 V	
 of auxiliary circuit with degree of pollution 3 rated value 	690 V	
surge voltage resistance		
 of main circuit rated value 	6 kV	
of auxiliary circuit rated value	6 kV	
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V	
shock resistance at rectangular impulse		
• at DC	7.3g / 5 ms, 4.7g / 10 ms	
shock resistance with sine pulse		
• at DC	11,4g / 5 ms, 7,3g / 10 ms	
mechanical service life (operating cycles)		
of contactor typical	30 000 000	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
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 according to IEC 60068-2-30 maximum	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	690 V	

 at AC-3e rated value maximum 	690 V
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C rated value 	22 A
• at AC-1	
— up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value	22 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	20 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	9.2 A
— at 690 V rated value	6.7 A
 at AC-4 at 400 V rated value 	8.5 A
• at AC-5a up to 690 V rated value	19.4 A
• at AC-5b up to 400 V rated value	9.9 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	7.2 A
— up to 400 V for current peak value n=20 rated value	7.2 A
— up to 500 V for current peak value n=20 rated value	7.2 A
— up to 690 V for current peak value n=20 rated value	6.7 A
• at AC-6a	
 up to 230 V for current peak value n=30 rated value 	4.8 A
— up to 400 V for current peak value n=30 rated value	4.8 A
— up to 500 V for current peak value n=30 rated value	4.8 A
— up to 690 V for current peak value n=30 rated value	4.8 A
minimum cross-section in main circuit at maximum AC-1 rated value	4 mm ²
operational current for approx. 200000 operating cycles at	
AC-4 • at 400 V rated value	4.1 A
at 690 V rated value	3.3 A
operational current	0.071
• at 1 current path at DC-1	
- at : •	
	20 A
— at 24 V rated value	20 A 20 A
— at 24 V rated value— at 60 V rated value	20 A
— at 24 V rated value— at 60 V rated value— at 110 V rated value	20 A 2.1 A
 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value 	20 A 2.1 A 0.8 A
 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value 	20 A 2.1 A 0.8 A 0.6 A
 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value 	20 A 2.1 A 0.8 A
 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value 	20 A 2.1 A 0.8 A 0.6 A
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 at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 440 V rated value at 600 V rated value with 2 current paths in series at DC-1 at 24 V rated value 	20 A 2.1 A 0.8 A 0.6 A 0.6 A
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with 2 comment meths in series at DC 2 at DC 5	
 with 2 current paths in series at DC-3 at DC-5 — at 24 V rated value 	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
	0.35 A
with 3 current paths in series at DC-3 at DC-5 at 34 V reted value.	20.4
— at 24 V rated value — at 60 V rated value	20 A 20 A
— at 110 V rated value	20 A
— at 220 V rated value	1.5 A
— at 440 V rated value	0.2 A
— at 600 V rated value	0.2 A
operating power	U.2 A
at AC-2 at 400 V rated value	5.5 kW
• at AC-3	O.O RVV
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 230 V rated value	3 kW
— at 400 V rated value	5.5 kW
— at 500 V rated value	5.5 kW
— at 690 V rated value	5.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
• at 400 V rated value	2 kW
at 690 V rated value	2.5 kW
operating apparent power at AC-6a	
 up to 230 V for current peak value n=20 rated value 	2.8 kVA
 up to 400 V for current peak value n=20 rated value 	4.9 kVA
 up to 500 V for current peak value n=20 rated value 	6.2 kVA
up to 690 V for current peak value n=20 rated value	8 kVA
operating apparent power at AC-6a	
 up to 230 V for current peak value n=30 rated value 	1.9 kVA
• up to 400 V for current peak value n=30 rated value	3.3 kVA
• up to 500 V for current peak value n=30 rated value	4.1 kVA
• up to 690 V for current peak value n=30 rated value	5.7 kVA
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	200 A; Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	123 A; Use minimum cross-section acc. to AC-1 rated value
limited to 10 s switching at zero current maximum	96 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 30 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
• limited to 60 s switching at zero current maximum	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	10 000 1/h
operating frequency	
• at AC-1 maximum	1 000 1/h
• at AC-2 maximum	750 1/h
• at AC-3 maximum	750 1/h
• at AC-3e maximum	750 1/h
• at AC-4 maximum	250 1/h
Control circuit/ Control	
type of voltage of the control supply voltage	DC
control supply voltage at DC	
• rated value	110 V
operating range factor control supply voltage rated value of magnet coil at DC	
initial value	0.7
full-scale value	1.25
design of the surge suppressor	with varistor
closing power of magnet coil at DC	2.8 W

holding nower of magnet soil at DC	2.8 W
holding power of magnet coil at DC	2.0 VV
closing delay • at DC	25 130 ms
	25 150 1115
opening delay • at DC	7 20 ms
arcing time	10 15 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	Cianda AT AZ
number of NO contacts for auxiliary contacts instantaneous	1
contact	·
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 UL/CSA ratings	1 faulty switching per 100 million (17 V, 1 mA)
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	0.5 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	- p
— at 200/208 V rated value	3 hp
— at 220/230 V rated value	3 hp
— at 460/480 V rated value	7.5 hp
— at 575/600 V rated value	10 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: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)
— with type of assignment 2 required	gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)
• for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715
side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm

required spacing with side by-side mourting - forwards - upwards - downwards - of the side for grounded parts - forwards - upwards - of man - upwards - of man - opwards - or forwards - of man - opwards - or forwards - or forwards - or forwards - ownwards - ownwa		
- Forwards	required spacing	
- upwards	, and a second s	40
- downwards		
- at the side	·	
• for grounded parts — forwards — opwards — at the side — downwards — to line — forwards — opwards — opwar		
- forwards		U mm
- upwards		10
alt the side downwards 10 mm -		
• for Inve parts - for Inve parts - for Inve parts - for Invertises - for Invertises - for Invertises - for Invertises - for man current croruit • at contactor for auxillary contacts • of many and control circuit • at contactor for auxillary contacts • solid solid or stranded • for invertises - for invertises	•	
- forwards - upwards - upwards - downwards - for main current circuit - of or main current circuit - of or main current circuit - of or auxiliary and control circuit - of a contactor for auxiliary contacts - of major connectable conductor cross-sections for main contacts - solid or stranded - solid or stranded - finely stranded with core end processing - finely stranded with core e		10 111111
- upwards - downwards - downwa	·	10 mm
- downwards		
A	·	
type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of manyel coil type of connectable conductor cross-sections for main contacts • solid or stranded • finely stranded with core end processing • slenky stranded without core end processing • slenky stranded without core end processing • slenky stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded • for auxiliary contacts - fo		
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• for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil Spring-type terminals 1 type of connectable conductor cross-sections for main contacts • solid • solid or stranded • solid or stranded • finely stranded without core end processing • finely stranded without core end processing • solid • stranded • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for for connectable conductor cross-sections • for auxiliary contacts • solid or stranded • finely stranded with core end processing • for for stranded • finely stranded with core end processing • for for without core end processing • for for		anring loaded terminals
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• finely stranded with core end processing inely stranded without core end processing connectable conductor cross-section for main contacts • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts • solid or stranded • finely stranded without core end processing • for on auxiliary contacts - solid or stranded - sinely stranded with core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded without core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded without core end processing • for AWG cables for auxiliary contacts - solid or stranded - finely stranded without core end processing • for away contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded - finely stranded without core end processing - for faw Gables for auxiliary contacts - solid or stranded		
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e solid stranded on the stranded with core end processing on the stranded on t		
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• finely stranded without core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - for AWG cables for auxiliary contacts - for AWG cables for auxiliary contacts - for auxiliary contacts		
• finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section • for awiliary contacts • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to SN 31920 • with low demand rate according to EC 60529 protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 protection on the front according to IEC 60529 protection on the front according to IEC 60529 • safety-related switching OFF Yes		
connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing — for AWG cables for auxiliary contacts • for AWG cables for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts 20 12 Safety related data product function • mirror contact according to IEC 60947-4-1 810 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 11 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes		
• solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processins • for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for AWG cables for auxiliary contacts • for award contacts • for main contacts • for main contacts • for main contacts • for auxiliary contacts 20 12 Safety related data Product function • mirror contact according to IEC 60947-4-1 810 value with high demand rate according to SN 31920 • with high demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • with ligh demand rate according to SN 31920 • T1 value for proof test interval or service life according to IEC 60529 protection class IP on the front according to IEC 60529 protection on the front according to IEC 60529 safety-related switching OFF Ves		
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• finely stranded without core end processing type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded — finely stranded with core end processing — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing • for AWG cables for auxiliary contacts 2x (0.5 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 12) AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • with ligh demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure rate [FIT] with low demand rate according to EC 60529 fropoction class IP on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes		
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for main contacts for auxiliary contacts 20 12 Safety related data product function		
of ro auxiliary contacts 20 12 Safety related data product function omirror contact according to IEC 60947-4-1 B10 value with high demand rate according to SN 31920 proportion of dangerous failures owith low demand rate according to SN 31920 owith high demand rate according to SN 31920 owith high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 failure for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 interval or service life according to IEC 60529 touch protection on the front according to IEC 60529 interval or service life according to IEC 60529 interval or service life according to IEC 60529 interval contact from the front suitability for use o safety-related switching OFF Yes		
product function		
product function	·	20 12
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B10 value with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF 1 000 000 40 % 40 % 73 % 100 FIT 20 a IP20 finger-safe, for vertical contact from the front Yes	•	
proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use • safety-related switching OFF Yes	<u> </u>	
 with low demand rate according to SN 31920 with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 suitability for use safety-related switching OFF 40 % 20 a IP20 finger-safe, for vertical contact from the front Yes 		1 000 000
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T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes		
protection class IP on the front according to IEC 60529 IP20 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use		
touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front suitability for use • safety-related switching OFF Yes	61508	
suitability for use • safety-related switching OFF Yes	<u> </u>	
• safety-related switching OFF Yes	· · · · · · · · · · · · · · · · · · ·	finger-safe, for vertical contact from the front
	-	
Certificates/ approvals		Yes
	Certificates/ approvals	





Confirmation



<u>KC</u>



Functional EMC Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping

other



Confirmation

Vibration and Shock

Railway

Dangerous Good Transport Information



Confirmation

Environment

Environmental Con-<u>firmations</u>

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,...)

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-2LF41

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-2LF41

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

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

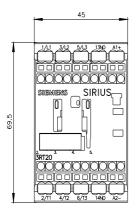
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2017-2LF41&lang=en

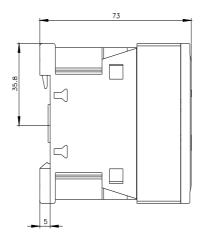
Characteristic: Tripping characteristics, I2t, Let-through current

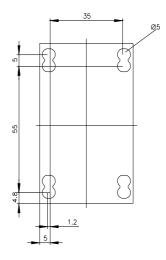
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2LF41/char

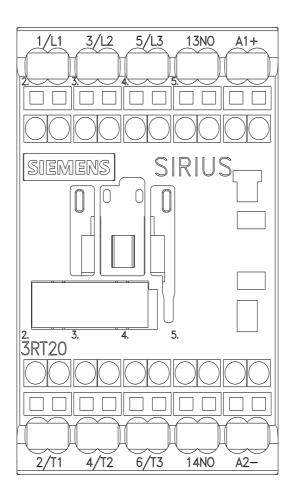
Further characteristics (e.g. electrical endurance, switching frequency)

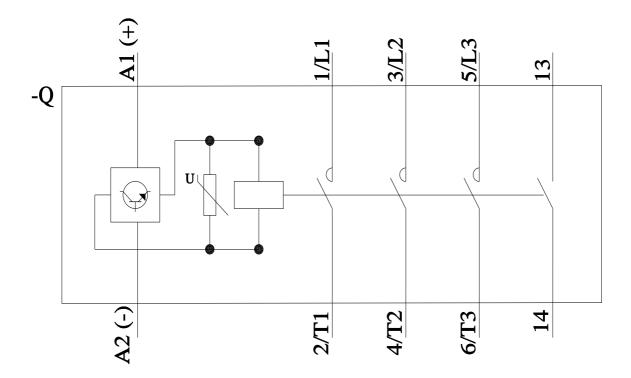
3RT2017-2LF41&objecttype=14&gridview=view1











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