## SIEMENS

## Data sheet

## 3RT2017-1AF01



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V AC, 50/60 Hz, auxiliary contacts: 1 NO, screw terminal, size: S00

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S00
product extension	
<ul> <li>function module for communication</li> </ul>	No
auxiliary switch	Yes
power loss [W] for rated value of the current	
<ul> <li>at AC in hot operating state</li> </ul>	1.5 W
<ul> <li>at AC in hot operating state per pole</li> </ul>	0.5 W
<ul> <li>without load current share typical</li> </ul>	1.5 W
type of calculation of power loss depending on pole	quadratic
insulation voltage	
<ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>	690 V
<ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>	690 V
surge voltage resistance	
<ul> <li>of main circuit rated value</li> </ul>	6 kV
<ul> <li>of auxiliary circuit rated value</li> </ul>	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 AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (operating cycles)	
<ul> <li>of contactor typical</li> </ul>	30 000 000
<ul> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> </ul>	5 000 000
<ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Weight	0.231 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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 %

Environmental footprint	
Environmental Product Declaration(EPD)	Yes
Global Warming Potential [CO2 eq] total	39.6 kg
Global Warming Potential [CO2 eq] during manufacturing	1.18 kg
Global Warming Potential [CO2 eq] during operation	38.5 kg
Global Warming Potential [CO2 eq] after end of life	-0.155 kg
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
operating voltage	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated value	22 A
<ul> <li>at AC-1</li> <li>— up to 690 V at ambient temperature 40 °C rated</li> </ul>	22 A
value — up to 690 V at ambient temperature 60 °C rated	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	7.2 A
<ul> <li>— up to 230 V for current peak value n=20 rated value</li> <li>— up to 400 V for current peak value n=20 rated value</li> </ul>	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	
<ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>	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 <sup>2</sup>
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	
• at 1 current path at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	2.1 A
— at 220 V rated value	0.8 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
with 2 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	12 A
— at 220 V rated value	1.6 A
— at 440 V rated value	0.8 A
— at 600 V rated value	0.7 A

with 3 current paths in series at DC-1	
— at 24 V rated value	20 A
— at 60 V rated value	20 A
— at 110 V rated value	20 A
— at 220 V rated value	20 A
— at 440 V rated value	1.3 A
— at 600 V rated value	1 A
<ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	0.5 A
— at 110 V rated value	0.15 A
<ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 110 V rated value	0.35 A
<ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>	
— at 24 V rated value	20 A
— at 60 V rated value	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	
• at AC-3	
— 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	2.5 KW
up to 230 V for current peak value n=20 rated value	2.8 kVA
• up to 200 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 500 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 200 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 500 V for current peak value n=30 rated value	5.7 KVA
short-time withstand current in cold operating state up to	
40 °C	
<ul> <li>limited to 1 s switching at zero current maximum</li> </ul>	200 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 5 s switching at zero current maximum</li> </ul>	123 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 10 s switching at zero current maximum</li> </ul>	96 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 30 s switching at zero current maximum</li> </ul>	74 A; Use minimum cross-section acc. to AC-1 rated value
<ul> <li>limited to 60 s switching at zero current maximum</li> </ul>	61 A; Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at AC	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

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	orward and
- 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       4609 / Q600         Short-circuit protection of the main circuit       - with type of coordination 1 required         - with type of coordination 1 required       gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 35A (415V,80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V, 100kA), BS88: 20A (415V, 80 GG: 20A (690V	orward and
- 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         - with type of coordination 1 required       gG: 50A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (415V, 8C)         - with type of coordination 1 required       gG: 20A (690V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8C)         - with type of assignment 2 required       gG: 10 A (500 V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8C)         - with type of assignment 2 required       gG: 10 A (500 V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8C)         - for short-circuit protection of the auxiliary switch required       gG: 10 A (500 V, 1 kA)         Installation/ mounting/ dimensions       +/-180° rotation possible on vertical mounting surface; can be tilted f         backward by +/- 22.5° on vertical mounting surface       screw and snap-on mounting onto 35 mm DIN rail according to DIN         height       58 mm         width       45 mm         depth       73 mm	orward and
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	orward and
	orward and
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,80         - with type of assignment 2 required         e for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80         e 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 f         backward by +/- 22.5° on vertical mounting surface         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN         height       58 mm         width       45 mm         depth       73 mm         required spacing       • with side-by-side mounting	orward and
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,80         gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80         • for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 10kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80         • 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 f         backward by +/- 22.5° on vertical mounting surface         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN         height       58 mm         width       45 mm         depth       73 mm         required spacing       • with side-by-side mounting	orward and
design of the fuse link <ul> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80</li> <li>gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul> Installation/ mounting/ dimensions <ul> <li>t+/-180° rotation possible on vertical mounting surface; can be tilted f backward by +/- 22.5° on vertical mounting surface;</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN height</li> <li>f8 mm</li> <li>width</li> <li>depth</li> <li>mounting</li> <li>with side-by-side mounting</li> </ul>	orward and
<ul> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80</li> <li>gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80</li> <li>for short-circuit protection of the auxiliary switch required</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul> </li> <li>Installation/ mounting/ dimensions         <ul> <li>+/-180° rotation possible on vertical mounting surface; can be tilted fbackward by +/- 22.5° on vertical mounting surface</li> <li>fastening method</li> <li>screw and snap-on mounting onto 35 mm DIN rail according to DIN height</li> <li>58 mm</li> <li>width</li> <li>45 mm</li> <li>depth</li> <li>required spacing             <li>with side-by-side mounting</li> </li></ul> </li> </ul>	orward and
- with type of coordination 1 requiredgG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80- with type of assignment 2 requiredgG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80• for short-circuit protection of the auxiliary switch requiredgG: 10 A (500 V, 1 kA)Installation/ mounting/ dimensions+/-180° rotation possible on vertical mounting surface; can be tilted f backward by +/- 22.5° on vertical mounting surfacefastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN backward by +/- 22.5° on vertical mounting to DIN rail according to DIN fastening methodwidth45 mmdepth73 mmrequired spacing • with side-by-side mounting	orward and
with type of assignment 2 required     gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 8       • for short-circuit protection of the auxiliary switch required     gG: 10 A (500 V, 1 kA)       Installation/ mounting/ dimensions     +/-180° rotation possible on vertical mounting surface; can be tilted for backward by +/- 22.5° on vertical mounting surface       fastening method     screw and snap-on mounting onto 35 mm DIN rail according to DIN height       width     45 mm       depth     73 mm       required spacing     • with side-by-side mounting	orward and
• for short-circuit protection of the auxiliary switch required         gG: 10 A (500 V, 1 kA)           Installation/ mounting/ dimensions         +/-180° rotation possible on vertical mounting surface; can be tilted f           mounting position         +/-180° rotation possible on vertical mounting surface; can be tilted f           fastening method         screw and snap-on mounting onto 35 mm DIN rail according to DIN           height         58 mm           width         45 mm           depth         73 mm           required spacing         • with side-by-side mounting	prward and
Installation/ mounting/ dimensions         mounting position       +/-180° rotation possible on vertical mounting surface; can be tilted f         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN         height       58 mm         width       45 mm         depth       73 mm         required spacing       • with side-by-side mounting	
mounting position       +/-180° rotation possible on vertical mounting surface; can be tilted f         fastening method       screw and snap-on mounting onto 35 mm DIN rail according to DIN         height       58 mm         width       45 mm         depth       73 mm         required spacing       • with side-by-side mounting	
backward by +/- 22.5° on vertical mounting surface       fastening method     screw and snap-on mounting onto 35 mm DIN rail according to DIN       height     58 mm       width     45 mm       depth     73 mm       required spacing     with side-by-side mounting	
height     58 mm       width     45 mm       depth     73 mm       required spacing     • with side-by-side mounting	EN 60715
width     45 mm       depth     73 mm       required spacing     • with side-by-side mounting	
width     45 mm       depth     73 mm       required spacing     • with side-by-side mounting	
with side-by-side mounting	
with side-by-side mounting	
with side-by-side mounting	
— upwards 10 mm	
– downwards 10 mm	
— at the side 0 mm	
● for grounded parts	
— forwards 10 mm	
— upwards 10 mm	
— at the side 6 mm	
— downwards 10 mm	
• for live parts	
— forwards 10 mm	
— upwards 10 mm	
— downwards 10 mm	
— at the side 6 mm	
Connections/ Terminals	
type of electrical connection	
for main current circuit     screw-type terminals	
for auxiliary and control circuit     screw-type terminals	
at contactor for auxiliary contacts     Screw-type terminals	
of magnet coil     Screw-type terminals	
type of connectable conductor cross-sections	
for main contacts	
— solid 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>	
- finely stranded with core end processing 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
• for AWG cables for main contacts 2x (20 16), 2x (18 14), 2x 12	
connectable conductor cross-section for main contacts	
• solid 0.5 4 mm <sup>2</sup>	
• stranded 0.5 4 mm <sup>2</sup>	
• finely stranded with core end processing 0.5 2.5 mm <sup>2</sup>	
connectable conductor cross-section for auxiliary contacts	
• solid or stranded 0.5 4 mm <sup>2</sup>	
• finely stranded with core end processing 0.5 2.5 mm <sup>2</sup>	
type of connectable conductor cross-sections	
for auxiliary contacts	
- solid or stranded 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>	
- finely stranded with core end processing 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )	
• for AWG cables for auxiliary contacts 2x (20 16), 2x (18 14), 2x 12	
AWG number as coded connectable conductor cross	

section						
<ul> <li>for main contacts</li> </ul>			20 1	12		
<ul> <li>for auxiliary contact</li> </ul>	cts		20 1			
Safety related data						
product function						
<ul> <li>mirror contact acc</li> </ul>	ording to IEC 60947-4-	-1	Yes; w	vith 3RH29		
<ul> <li>positively driven or</li> </ul>	peration according to I	EC 60947-5-1	No			
<ul> <li>suitable for safety</li> </ul>	function		Yes			
suitability for use safety-	related switching OFF		Yes			
service life maximum			20 a			
test wear-related servic	est wear-related service life necessary		Yes			
proportion of dangerou	ıs failures					
<ul> <li>with low demand r</li> </ul>	rate according to SN 37	1920	40 %			
with high demand rate according to SN 31920		73 %				
	B10 value with high demand rate according to SN 31920		1 000			
failure rate [FIT] with lo 31920	w demand rate accor	ding to SN	100 FI	Т		
ISO 13849						
device type according	to ISO 13849-1		3			
overdimensioning acco		necessarv	Yes			
IEC 61508						
safety device type acco	ording to IEC 61508-2		Туре А	A		
Electrical Safety						
protection class IP on t	the front according to	IEC 60529	IP20			
touch protection on the	e front according to I	EC 60529	finger-	safe, for vertical conta	t from the front	
Approvals Certificates						
General Product Appro	oval					
		UK CF		ccc	UL	
General Product Ap-	EMV	Functional Sa	•	ccc Test Certificates	ŰĽ	Marine / Shipping
General Product Approval			aftey	CCC Test Certificates Type Test Certific- ates/Test Report	UL Special Test Certific- ate	Marine / Shipping
	EMV ECM	Functional Sa	aftey	Type Test Certific-		Marine / Shipping
proval	EMV ECM RCM	Functional Sa	aftey	Type Test Certific-		ABS
proval	RCM	Functional Sa	aftey	Type Test Certific-		ABS
proval EEEE Marine / Shipping	RCM	Functional Sa Type Examination tificate	aftey	Type Test Certific- ates/Test Report		ABS
proval EEREC Marine / Shipping	Confirmation	Functional Sa         Type Examination tificate         Understand         Understand         Understand         Understand         Image: Comparison of the second s	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFFEC Marine / Shipping	Kaging	Functional Sat         Type Examination         tificate         Image: state state         Railway         Special Test Calate         ate	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFRE Marine / Shipping WEREAU VERITAS other Confirmation Eurther information	Confirmation kaging	Functional Sat         Type Examination         tificate         Image: Special Test Call         ate         Vyiew/109813875	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFFE Marine / Shipping WEREAU UTEAU Confirmation Eurther information Information on the pac https://support.industry.s Information - and Down https://www.siemens.com	Kaging immens.com/cs/vw/en/ loadcenter (Catalogs n/ic10	Functional Sat         Type Examination         tificate         Image: Special Test Call         ate         Vyiew/109813875	aftey	Type Test Certific- ates/Test Report	ate	ABS
proval EFRE Marine / Shipping	Kaging iemens.com/cs/ww/en/ Ioadcenter (Catalogs n/ic10 rdering system)	Functional Sa Type Examination tificate Railway Special Test Co ate Aview/109813875 , Brochures,)	aftey ion Cer-	Type Test Certificates/Test Report         Image: Construction of the second s	ate	ABS

## Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AF01

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

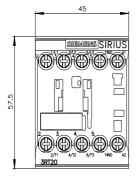
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AF01

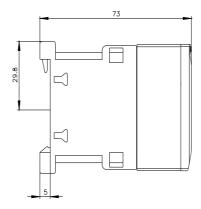
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AF01&lang=en

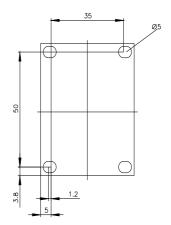
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AF01/char

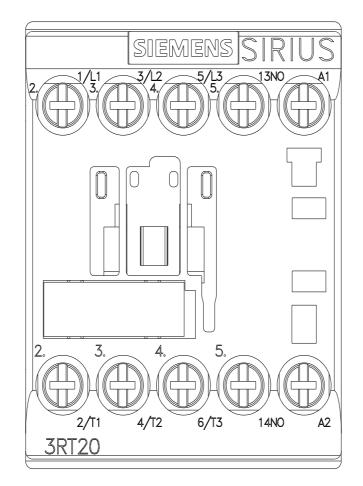
Further characteristics (e.g. electrical endurance, switching frequency)

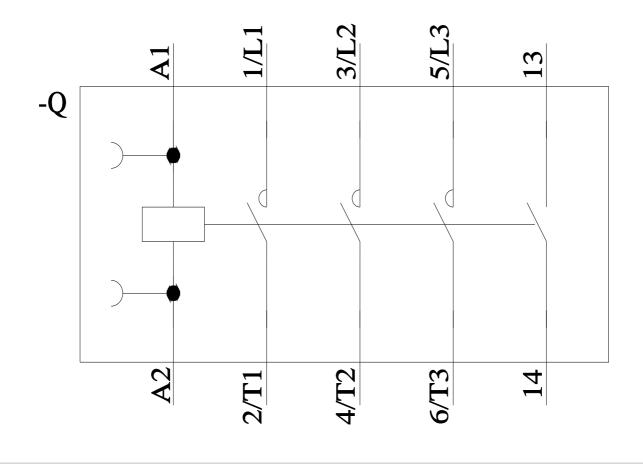
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