SIEMENS

Data sheet 3RT2026-1BB40



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0 $\,$

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT2
General technical data	
size of contactor	S0
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 	5.7 W
 at AC in hot operating state per pole 	1.9 W
 without load current share typical 	5.9 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	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating 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 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 	40 A	
value		
• at AC-1		
 up to 690 V at ambient temperature 40 °C rated value 	40 A	
— up to 690 V at ambient temperature 60 °C rated	35 A	
value		
• at AC-3		
— at 400 V rated value	25 A	
— at 500 V rated value	18 A	
— at 690 V rated value	13 A	
• at AC-3e		
— at 400 V rated value	25 A	
— at 500 V rated value	18 A	
— at 690 V rated value	13 A	
• at AC-4 at 400 V rated value	15.5 A	
• at AC-5a up to 690 V rated value	35.2 A	
• at AC-5b up to 400 V rated value	20.7 A	
• at AC-6a		
— up to 230 V for current peak value n=20 rated value	20.2 A	
— up to 400 V for current peak value n=20 rated value	20.2 A	
— up to 500 V for current peak value n=20 rated value	20.2 A	
— up to 690 V for current peak value n=20 rated value	12.9 A	
• at AC-6a		
— up to 230 V for current peak value n=30 rated value	13.5 A	
— up to 400 V for current peak value n=30 rated value	13.5 A	
— up to 500 V for current peak value n=30 rated value	13.5 A	
— up to 690 V for current peak value n=30 rated value	13 A	
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm²	
operational current for approx. 200000 operating cycles at		
AC-4		
at 400 V rated value	9 A	
at 690 V rated value	9 A	
operational current		
• at 1 current path at DC-1		
— at 24 V rated value	35 A	
— at 60 V rated value	20 A	
— at 110 V rated value	4.5 A	
— at 220 V rated value	1 A	
— at 440 V rated value	0.4 A	
— at 600 V rated value	0.25 A	
with 2 current paths in series at DC-1		
— at 24 V rated value	35 A	
— at 60 V rated value	35 A	
— at 110 V rated value	35 A	
— at 220 V rated value	5 A	
— at 440 V rated value	1 A	
— at 600 V rated value	0.8 A	
with 3 current paths in series at DC-1		
— at 24 V rated value	35 A	
— at 60 V rated value	35 A	
— at 110 V rated value	35 A	
— at 220 V rated value	35 A	
— at 440 V rated value	2.9 A	
— at 600 V rated value	1.4 A	
 at 1 current path 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	2.5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— at 440 V rated value	0.27 A
— at 600 V rated value	0.16 A
 with 3 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	35 A
— at 220 V rated value	10 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.6 A
operating power	
• at AC-3	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 230 V rated value	5.5 kW
— at 400 V rated value	11 kW
— at 500 V rated value	11 kW
— at 500 V rated value — at 690 V rated value	11 kW
	TTAVV
operating power for approx. 200000 operating cycles at AC-	
at 400 V rated value	4.4 kW
at 690 V rated value	7.7 kW
operating apparent power at AC-6a	
	8 kVA
■ up to 250 v tot cuttetit beak value (1=20 faled value	
 up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	13.9 kVA
• up to 400 V for current peak value n=20 rated value	13.9 kVA 17.4 kVA
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value 	17.4 kVA
 up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a	17.4 kVA 15.4 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value operating apparent power at AC-6a up to 230 V for current peak value n=30 rated value	17.4 kVA 15.4 kVA 5.3 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to 40 °C limited to 1 s switching at zero current maximum	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 144 A; Use minimum cross-section acc. to AC-1 rated value
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum alimited to 60 s switching at zero current maximum ro-load switching frequency at AC at DC operating frequency	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 144 A; Use minimum cross-section acc. to AC-1 rated value 118 A; Use minimum cross-section acc. to AC-1 rated value 15 000 1/h 1 500 1/h
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 up to 690 V for current peak value n=30 rated value short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum no-load switching frequency at AC at DC operating frequency at AC-1 maximum	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 144 A; Use minimum cross-section acc. to AC-1 rated value 118 A; Use minimum cross-section acc. to AC-1 rated value 15 000 1/h 1 500 1/h
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up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 10 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum at AC at DC operating frequency at AC-1 maximum at AC-2 maximum at AC-3 maximum	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 144 A; Use minimum cross-section acc. to AC-1 rated value 118 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 500 1/h 1 500 1/h 750 1/h 750 1/h
up to 400 V for current peak value n=20 rated value up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 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 short-time withstand current in cold operating state up to 40 °C Ilimited to 1 s switching at zero current maximum Ilimited to 5 s switching at zero current maximum Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum Ilimited to 60 s switching at zero current maximum ro-load switching frequency at AC at DC operating frequency at AC-1 maximum at AC-2 maximum	17.4 kVA 15.4 kVA 5.3 kVA 9.3 kVA 11.6 kVA 15.5 kVA 375 A; Use minimum cross-section acc. to AC-1 rated value 300 A; Use minimum cross-section acc. to AC-1 rated value 210 A; Use minimum cross-section acc. to AC-1 rated value 144 A; Use minimum cross-section acc. to AC-1 rated value 118 A; Use minimum cross-section acc. to AC-1 rated value 5 000 1/h 1 500 1/h 1 000 1/h 750 1/h

Control circuit/ Control		
type of voltage of the control supply voltage	DC	
control supply voltage at DC		
• rated value	24 V	
operating range factor control supply voltage rated value of magnet coil at DC		
• initial value	0.8	
• full-scale value		
	1.1	
closing power of magnet coil at DC holding power of magnet coil at DC	5.9 W	
closing delay	5.9 W	
• at DC	50 170 ms	
opening delay	30 170 IIIS	
• at DC	15 18 ms	
arcing time	10 10 ms	
control version of the switch operating mechanism	Standard A1 - A2	
Auxiliary circuit	Otanida (1) //2	
number of NC contacts for auxiliary contacts instantaneous	1	
contact	1	
number of NO contacts for auxiliary contacts instantaneous 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	0.3 A	
• at 220 V rated value	0.3 A	
at 600 V rated value	0.3 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	24.4	
at 480 V rated value	21 A	
• at 600 V rated value	22 A	
yielded mechanical performance [hp]		
• for single-phase AC motor	2 hn	
— at 110/120 V rated value	2 hp	
— at 230 V rated value	3 hp	
• for 3-phase AC motor	5 hn	
— at 200/208 V rated value	5 hp	
— at 220/230 V rated value	7.5 hp	
— at 460/480 V rated value	15 hp	
— at 575/600 V rated value	20 hp	
contact rating of auxiliary contacts according to UL Short-circuit protection	A600 / P600	
design of the fuse link		
 for short-circuit protection of the main circuit 		

— with type of coordination 1 required	gG: 100 A (690 V, 100 kA), aM: 50 A (690 V, 100 kA), BS88: 100 A (415 V, 80 kA)	
— with type of assignment 2 required	gG: 35A (690V, 100kA), aM: 20A (690V, 100kA), BS88: 35A (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	85 mm	
width	45 mm	
depth	107 mm	
required spacing		
 with side-by-side mounting 		
— forwards	10 mm	
— 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	40	
— forwards	10 mm	
— upwards	10 mm	
— downwards	10 mm	
— at the side	6 mm	
Connections/ Terminals		
type of electrical connection • for main current circuit	corous type terminals	
for auxiliary and control circuit	screw-type terminals	
at contactor for auxiliary contacts	screw-type terminals Screw-type terminals	
of magnet coil	Screw-type terminals Screw-type terminals	
type of connectable conductor cross-sections for main contacts	ociew-type terminals	
solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
solid or stranded	2x (1 2.5 mm²), 2x (2.5 10 mm²)	
finely stranded with core end processing	2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
• stranded	1 10 mm²	
finely stranded with core end processing	1 10 mm²	
connectable conductor cross-section for auxiliary contacts		
• solid or stranded	0.5 2.5 mm²	
• finely stranded with core end processing	0.5 2.5 mm²	
type of connectable conductor cross-sections		
• for auxiliary contacts		
— solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)	
for AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)	
AWG number as coded connectable conductor cross section		
for main contacts	16 8	
for auxiliary contacts	20 14	
Safety related data		
product function		
mirror contact according to IEC 60947-4-1	Yes	
suitability for use safety-related switching OFF	Yes	
B10 value with high demand rate according to SN 31920	450 000	
proportion of dangerous failures		
with low demand rate according to SN 31920	40 %	

 with high demand rate according to SN 31920 	73 %	
failure rate [FIT] with low demand rate according to SN 31920	100 FIT	
T1 value for proof test interval or service life according to IEC 61508	20 a	
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	
Cartificates/ approvals		

Certificates/ approvals

General Product Approval



Confirmation





<u>KC</u>



EMC Safety/Safety of Ma- chinery Declaration of Conformity Test Certificates	EMC		Declaration of Conformity	Test Certificates
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Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Test Certificates Marine / Shipping

Miscellaneous











Marine / Shipping other Railway Dangerous Good Environment



Household and similar appliances

Confirmation

Vibration and Shock

Transport Information

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=3RT2026-1BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-1BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1BB40

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

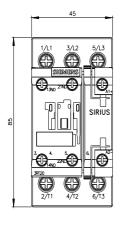
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2026-1BB40&lang=er

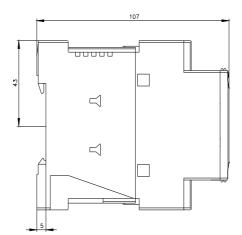
Characteristic: Tripping characteristics, I^2t , Let-through current

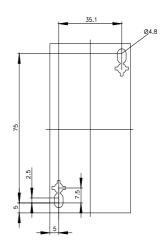
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-1BB40/cha

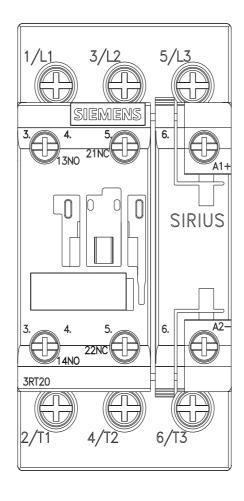
Further characteristics (e.g. electrical endurance, switching frequency)

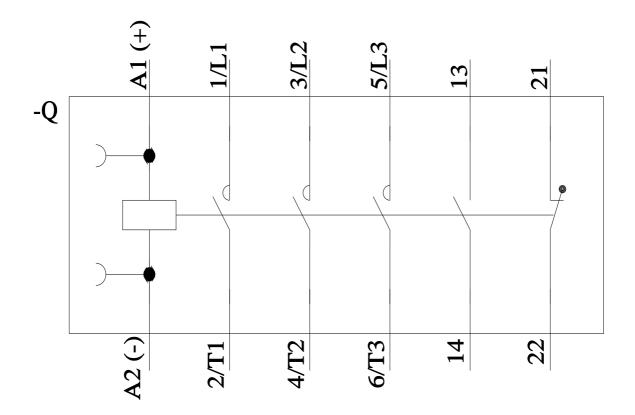
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-1BB40&objecttype=14&gridview=view1











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