SIEMENS

Data sheet 3RT2026-2AP00



power contactor, AC-3e/AC-3, 25 A, 11 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded 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	2.5 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 AC	8,3g / 5 ms, 5,3g / 10 ms	
shock resistance with sine pulse		
• at AC	13,5g / 5 ms, 8,3g / 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 %	
Environmental footprint		
Environmental Product Declaration(EPD)	Yes	

Global Warming Potential [CO2 eq] total	74.2 kg
Global Warming Potential [CO2 eq] during manufacturing	1.9 kg
Global Warming Potential [CO2 eq] during operation	72.4 kg
global warming potential [CO2 eq] after end of life	-0.117 kg
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 	40 A
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	40 A
— up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value	35 A
• 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	12.5.4
 up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	13.5 A 13.5 A
 up to 400 V for current peak value n=30 rated value 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 — 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 mm ²
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 220 V rated value	1A		
— 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 690 V rated value	11 kW		
operating power for approx. 200000 operating cycles at AC-			
4			
at 400 V rated value	4.4 kW		
at 690 V rated value	7.7 kW		
operating apparent power at AC-6a			
• up to 230 V for current peak value n=20 rated value	8 kVA		
• up to 400 V for current peak value n=20 rated value	13.9 kVA		
• up to 500 V for current peak value n=20 rated value	17.4 kVA		
• up to 690 V for current peak value n=20 rated value	15.4 kVA		
operating apparent power at AC-6a			
• up to 230 V for current peak value n=30 rated value	5.3 kVA		
• up to 400 V for current peak value n=30 rated value	9.3 kVA		
• up to 500 V for current peak value n=30 rated value	11.6 kVA		
• up to 690 V for current peak value n=30 rated value	15.5 kVA		
short-time withstand current in cold operating state up to 40 °C			
 limited to 1 s switching at zero current maximum 	375 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 5 s switching at zero current maximum 	300 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 10 s switching at zero current maximum 	210 A; Use minimum cross-section acc. to AC-1 rated value		
 limited to 30 s switching at zero current maximum 	144 A; Use minimum cross-section acc. to AC-1 rated value		
	144 7t, Ode Hillimani cross section dec. to 7to 1 rated value		
limited to 60 s switching at zero current maximum	118 A; Use minimum cross-section acc. to AC-1 rated value		
Iimited to 60 s switching at zero current maximum no-load switching frequency			
•			
no-load switching frequency	118 A; Use minimum cross-section acc. to AC-1 rated value		

	1400	750.4/		
# at AC-4 maximum				
Control circuit/ Control Type of voltage of the control supply voltage operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz apparent pick-up power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz closing delay at AC arcing time at AC arcing time arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for susiliary contacts instantaneous control version of the switch operating mechanism at 230 N contacts for susiliary contacts instantaneous control version at AC-12 maximum apperational current at AC-19 maximum at 450 V rated value at 450 V rated value				
type of voltage of the control supply voltage operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz 50 Rule 150 Hz 77 VA inductive power factor with closing power of the coil • at 50 Hz apparent pick-up power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz apparent holding power of magnet coil at AC • at 50 Hz colosing delay • at AC subscription of the switch operating mechanism Auxiliary circuit arching vicinity archin		25U 1/n		
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aparent pick-up power of magnet coil at AC at 50 Hz als 50 Hz aparent holding power of magnet coil at AC at 50 Hz aparent holding power of magnet coil at AC at 50 Hz at 50 Hz aparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 50 Hz at 50 Hz closing delay at AC at 4C at 50 Hz copping delay at AC arcing time control version of the switch operating mechanism standard A1 - A2 Austiliary defection number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts number of NC contacts fo				
### at 50 Hz Inductive power factor with closing power of the coil ### at 50 Hz apparent holding power of magnet coil at AC ### at 50 Hz Inductive power factor with the holding power of the coil ### at 50 Hz closing delay ### at AC ### at AC arcing time ### at AC arcing time ### at AC ### at A	-	0.8 1.1		
Inductive power factor with closing power of the coil • at 50 Hz sparent holding power of magnet coil at AC • at 50 Hz Inductive power factor with the holding power of the coil • at 50 Hz closing delay • at AC opening delay • at AC survive power of the switch operating mechanism control version of the switch operating mechanism Auxiliary circuit Tumber of NC contacts for auxiliary contacts instantaneous contact contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-14 maximum operational current at AC-15 • at 230 V rated value • at 690 V rated value • at 690 V rated value • at 40 V rated value • at 40 V rated value • at 42 V rated value • at 42 V rated value • at 43 V rated value • at 42 V rated value • at 40 V ra	apparent pick-up power of magnet coil at AC			
* at 50 Hz	● at 50 Hz	77 VA		
apparent holding power of magnet coil at AC * at 50 Hz linductive power factor with the holding power of the coil * at 50 Hz closing delay * at AC * a	inductive power factor with closing power of the coil			
a ta 50 Hz	• at 50 Hz	0.82		
inductive power factor with the holding power of the coil • at 50 Hz closing delay • at AC opening delay • at AC 4 16 ms arcing time control version of the switch operating mechanism Natidiary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 120 V rated value • at 690 V rated value • at 600 V rated value • at 100 V rated value • at 22 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 220 V rated value • at 690 V rated value	apparent holding power of magnet coil at AC			
• at 50 Hz 0.25 closing delay 8 40 ms • at AC 4 16 ms • at AC 4 16 ms • arcing time 10 10 ms control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit	● at 50 Hz	9.8 VA		
closing delay	inductive power factor with the holding power of the coil			
● at AC opening delay ● at AC arcing time 10 10 ms control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 ● at 230 V rated value ● at 400 V rated value ● at 690 V rated value ■ at 890 V rated value ■ at 890 V rated value ■ at 48 V rated value ● at 48 V rated value ● at 110 V rated value ● at 110 V rated value ● at 125 V rated value ● at 125 V rated value ■ at 110 V rated value ■ at 24 V rated value ■ at 250 V rated value ■ at 220 V rated value ■ at 125 V rated value ■ at 125 V rated value ■ at 24 V rated value ■ at 250 V rated value ■ at 250 V rated value ■ at 250 V rated value ■ at 125 V rated value ■ at 25 V rated value ■ at 25 V rated value ■ at 26 V rated value ■ at 27 V rated value ■ at 28 V rated value ■ at 29 V rated value ■ at 29 V rated value ■ at 29 V rated value ■ at 20 V rated value ■ at 25 V rated value ■ at 25 V rated value ■ at 26 V rated value ■ at 27 V rated value ■ at 28 V rated value ■ at 28 V rated value ■ at 30 V rate	● at 50 Hz	0.25		
• at AC	closing delay			
■ at AC arcing time		8 40 ms		
arcing time control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxillary contacts instantaneous contact number of NO contacts for auxillary contacts instantaneous contact number of NO contacts for auxillary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-12 maximum operational current at AC-18 • at 230 V rated value • at 400 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 48 V rated value • at 48 V rated value • at 220 V rated value • at 480 V rated value 21 A				
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contact 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 • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 22 V rated value • at 25 V rated value • at 26 V rated value • at 28 V rated value • at 30 V rated value • at 20 V rated value • at 20 V rated value • at 30 V rated value • at 48 V rated value • at 20 V rated value • at 30 V rated value • at 40 V rated value • at 30 V rated value • at 40 V rated value • at 40 V rated value • at 20 V rated value • at 30 V rated value • at 30 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 120 V rated value • at 20 V rated value				
Operational current at AC-12 maximum	contact			
Operational current at AC-15 • at 230 V rated value	contact			
 at 230 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value 1 A operational current at DC-12 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 220 V rated value at 600 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value at 120 V rated value at 200 V rated value at 24 V rated value at 48 V rated value at 48 V rated value at 100 V rated value at 110 V rated value at 125 V rated value at 125 V rated value at 200 V rated value at 30 V rated value at 600 V	<u> </u>	10 A		
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• at 500 V rated value				
• at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 60 V rated value • at 24 V rated value • at 24 V rated value • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated va				
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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 21 A	• at 220 V rated value	0.3 A		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 21 A	• at 600 V rated value	0.1 A		
full-load current (FLA) for 3-phase AC motor • at 480 V rated value 21 A	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)		
• at 480 V rated value 21 A	UL/CSA ratings			
	full-load current (FLA) for 3-phase AC motor			
• at 600 V rated value 22 A	• at 480 V rated value	21 A		
	at 600 V rated value	22 A		
yielded mechanical performance [hp]	yielded mechanical performance [hp]			
• for single-phase AC motor	• for single-phase AC motor			
— at 110/120 V rated value 2 hp	— at 110/120 V rated value	2 hp		
— at 230 V rated value 3 hp	— at 230 V rated value	3 hp		
• for 3-phase AC motor	• for 3-phase AC motor			
— at 200/208 V rated value 5 hp	— at 200/208 V rated value	5 hp		

ot 220/220 \/ -stad	7.5 hp	
— at 220/230 V rated value	7.5 hp	
— at 460/480 V rated value	15 hp	
— at 575/600 V rated value contact rating of auxiliary contacts according to UL	20 hp A600 / P600	
Short-circuit protection	A0007 F000	
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	1/ 190° retation possible on vertical mounting aurices; can be tilted forward and	
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	102 mm	
width	45 mm	
depth	97 mm	
required spacing		
with side-by-side mounting	40	
— forwards	10 mm	
— upwards — downwards	10 mm	
— downwards — at the side	0 mm	
for grounded parts	O THILL	
for grounded parts forwards	10 mm	
— upwards	10 mm	
— at the side	10 mm 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	spring-loaded terminals	
 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		
• for main contacts		
— solid	2x (1 10 mm²)	
— solid or stranded	2x (1 10 mm²)	
 finely stranded with core end processing 	2x (1 6 mm²)	
— finely stranded without core end processing	2x (1 6 mm²)	
for AWG cables for main contacts	2x (18 8)	
connectable conductor cross-section for main contacts		
• solid	1 10 mm²	
• stranded	1 10 mm²	
finely stranded with core end processing finely stranded without core and processing	1 6 mm²	
finely stranded without core end processing	1 6 mm²	
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm ²	
solid or stranded finely stranded with core and processing	0.5 2.5 mm ²	
finely stranded with core end processing finely stranded without core and processing	0.5 1.5 mm ² 0.5 2.5 mm ²	
• finely stranded without core end processing type of connectable conductor cross-sections	0.0 2.0 IIIIII	
•	2x (0.5 2.5 mm²)	
for auxiliary contacts — solid or stranded — finely stranded with core end processing	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²)	

 finely stranded without core end processing 	2x (0.5 2.5 mm²)	
 for AWG cables for auxiliary contacts 	2x (20 14)	
AWG number as coded connectable conductor cross section		
• for main contacts	18 8	
 for auxiliary contacts 	20 14	
Safety related data		
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	
B10 value with high demand rate according to SN 31920	450 000	
suitability for use safety-related switching OFF	Yes	
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	
Approvals Certificates		

Approvals Certificates

General Product Approval





Confirmation



<u>KC</u>



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





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping













Marine / Shipping other Railway Environment



Household and similar appliances

Confirmation

Confirmation

Vibration and Shock

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=3RT2026-2AP00

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2026-2AP00

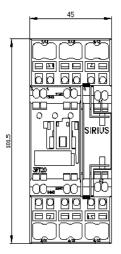
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AP00

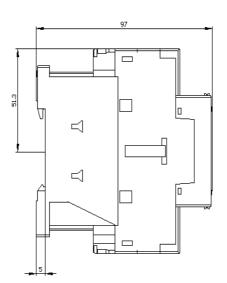
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RT2026-2AP00&lang=en

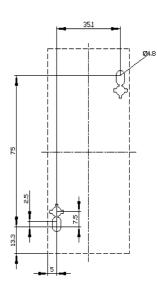
Characteristic: Tripping characteristics, I2t, Let-through current

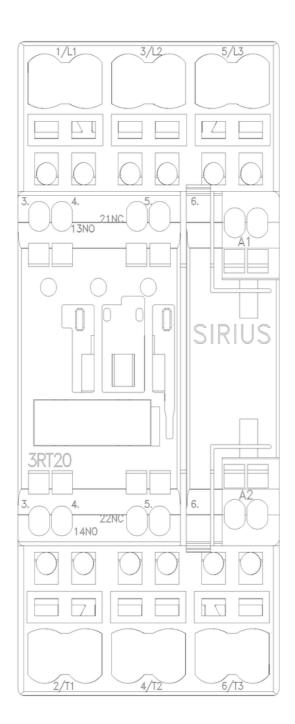
https://support.industry.siemens.com/cs/ww/en/ps/3RT2026-2AP00/char

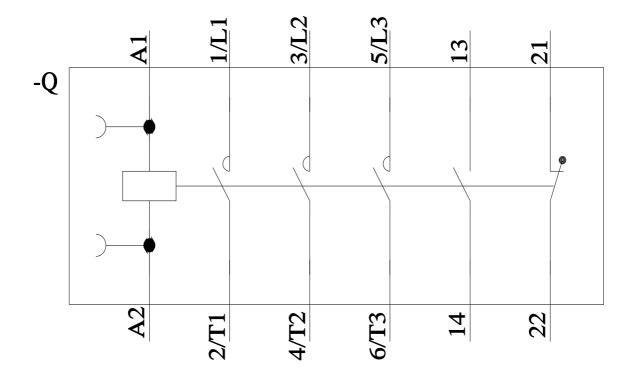
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2026-2AP00&objecttype=14&gridview=view1











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