SIEMENS

Data sheet

3RT2024-2AB00-1AA0



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 24 V AC, 50 Hz, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal, size: S0, upright mounting position

product brain dname SiNUs product brain duch Power contactor product dispipation 3RT2 Central technical data Si size of contactor Si product dispipation No • atxidiary switch Yes power loss [W] for rated value of the current 0.9 W • at AC in hot operating state 0.9 W • at AC in hot operating state per pole 0.3 W • without load current share typical 7.6 W insulation voltage 600 V • of auxiliary circuit with degree of pollution 3 rated value 690 V • of auxiliary circuit with degree of pollution 3 rated value 600 V • of auxiliary circuit rated value 6 kV • of auxiliary circuit rated value 7.5g / 5 ms, 4.7g / 10 ms <t< th=""><th></th><th></th></t<>		
product type designation 3RT2 Convaria tochnical data	product brand name	SIRIUS
General technical data S0 size of contactor S0 product extension auxiliary switch Yes power loss [W] for rated value of the current et AC in hot operating state per pole 0.3 W without load current share typical r.6 W insulation voltage of main circuit with degree of pollution 3 rated value 680 V of auxiliary circuit with degree of pollution 3 rated value 680 V of auxiliary circuit with degree of pollution 3 rated value 680 V of auxiliary circuit with degree of pollution 3 rated value 680 V of auxiliary circuit rated value 6 kV of auxiliary circuit rated value 6 kV of auxiliary circuit rated value 6 kV of auxiliary circuit rated value at AC r.5g / 5 ms, 4,7g / 10 ms mechanical service life (operating cycles) of contactor with added electronically optimized auxiliary switch block typical		
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• 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 6 • of main circuit rated value 6 kV • of auxiliary circuit with degree of pollution 3 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 6 • at AC 7.5g / 5 ms, 4.7g / 10 ms shock resistance life (operating cycles) 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • 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 temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % relative humidity minimum 10 %	 without load current share typical 	7.6 W
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coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC 7,5g / 5 ms, 4,7g / 10 ms shock resistance with sine pulse • at AC 11.8g / 5 ms, 7,4g / 10 ms mechanical service life (operating cycles) • of contactor typical 10 000 000 • of the contactor with added electronically optimized auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • of the contactor with added auxiliary switch block typical 10 000 000 • 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 2 000 m ambient temperature -25 +60 °C • 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 95 % Main circuit	 of auxiliary circuit rated value 	6 kV
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mechanical service life (operating cycles) integr cmap registration • 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +60 °C • during storage -55 +80 °C relative humidity minimum 10 % Main circuit 95 %	shock resistance with sine pulse	
• 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 95 %	• at AC	11,8g / 5 ms, 7,4g / 10 ms
• 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 • 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 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	mechanical service life (operating cycles)	
auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • during operation -25 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	 of contactor typical 	10 000 000
reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 %		5 000 000
Substance Prohibitance (Date) 10/01/2009 Ambient conditions 10/01/2009 installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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 95 % Main circuit	 of the contactor with added auxiliary switch block typical 	10 000 000
Ambient conditions 2 000 m installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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	reference code according to IEC 81346-2	Q
installation altitude at height above sea level maximum 2 000 m ambient temperature -25 +60 °C • 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	Substance Prohibitance (Date)	10/01/2009
ambient temperature -25 +60 °C • 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	Ambient conditions	
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• during storage -55 +80 °C relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 %	ambient temperature	
relative humidity minimum 10 % relative humidity at 55 °C according to IEC 60068-2-30 maximum 95 % Main circuit 10 %	 during operation 	-25 +60 °C
relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum 95 % Main circuit 95 %	during storage	-55 +80 °C
maximum	relative humidity minimum	10 %
		95 %
number of poles for main current circuit 3	Main circuit	
	number of poles for main current circuit	3

number of NO contacts for main contacts	3
	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	40 A
value	
— up to 690 V at ambient temperature 60 °C rated value	35 A
• at AC-3	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
• at AC-3e	
— at 400 V rated value	12 A
— at 500 V rated value	12 A
— at 690 V rated value	9 A
at AC-4 at 400 V rated value	12.5 A
• at AC-5a up to 690 V rated value	35.2 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	11.4 A
— up to 400 V for current peak value n=20 rated value	11.4 A
— up to 500 V for current peak value n=20 rated value	11.3 A
— up to 690 V for current peak value n=20 rated value	9 A
● at AC-6a	
— up to 230 V for current peak value n=30 rated value	7.6 A
 — up to 400 V for current peak value n=30 rated value 	7.6 A
 — up to 500 V for current peak value n=30 rated value 	7.6 A
 — up to 690 V for current peak value n=30 rated value 	7.6 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	5.5 A
• at 690 V rated value	5.5 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 	

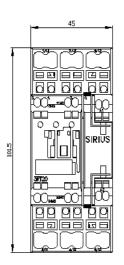
— at 24 V rated value	20 A
— at 60 V rated value	5 A
— at 220 V rated value	1 A
— at 440 V rated value	0.09 A
— at 600 V rated value	0.06 A
 with 2 current paths in series at DC-3 at DC-5 	
— at 24 V rated value	35 A
— at 60 V rated value	35 A
— at 110 V rated value	15 A
— at 220 V rated value	3 A
— 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-2 at 400 V rated value	5.5 kW
• 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	7.5 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	7.5 kW
operating power for approx. 200000 operating cycles at AC-	
4	
 at 400 V rated value 	2.6 kW
• at 690 V rated value	4.6 kW
at 690 V rated value operating apparent power at AC-6a	
 at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value 	4.5 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 V for current peak value n=20 rated value up to 400 V for current peak value n=20 rated value 	4.5 kVA 7.8 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 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 	4.5 kVA 7.8 kVA 9.8 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 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 	4.5 kVA 7.8 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 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 	4.5 kVA 7.8 kVA 9.8 kVA 10.7 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 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 up to 230 V for current peak value n=30 rated value 	4.5 kVA 7.8 kVA 9.8 kVA 10.7 kVA 3 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 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 up to 690 V for current peak value n=30 rated value up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value 	4.5 kVA 7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA
 at 690 V rated value operating apparent power at AC-6a up to 230 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 up to 690 V for current peak value n=20 rated value up to 230 V for current peak value n=30 rated value 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 	4.5 kVA 7.8 kVA 9.8 kVA 10.7 kVA 3 kVA 5.2 kVA 6.5 kVA
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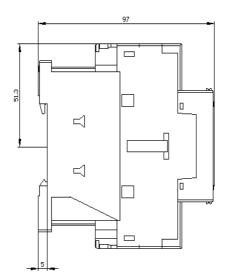
type of voltage of the control supply voltage	AC
control supply voltage at AC	
at 50 Hz rated value	24 V
operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 1.1
apparent pick-up power of magnet coil at AC	
• at 50 Hz	65 VA
inductive power factor with closing power of the coil	
• at 50 Hz	0.82
apparent holding power of magnet coil at AC	
• at 50 Hz	7.6 VA
inductive power factor with the holding power of the coil	
• at 50 Hz	0.25
closing delay	
• at AC	8 40 ms
opening delay	
• at AC	4 16 ms
arcing time	10 10 ms
control version of the switch operating mechanism	Standard A1 - A2
Auxiliary circuit	
number of NC contacts for auxiliary contacts instantaneous contact	1
number of NO contacts for auxiliary contacts instantaneous contact	1
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	1A
at 600 V rated value	0.15 A
operational current at DC-13	40.4
at 24 V rated value	10 A
 at 48 V rated value at 60 V rated value 	2 A 2 A
at 50 V rated value at 110 V rated value	2 A 1 A
at 110 V rated value at 125 V rated value	0.9 A
at 125 V rated value at 220 V rated value	0.3 A
at 220 V rated value at 600 V rated value	0.5 A 0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	11 A
at 600 V rated value	11 A
yielded mechanical performance [hp]	
• for single-phase AC motor	
— at 110/120 V rated value	1 hp
— at 230 V rated value	2 hp
• for 3-phase AC motor	
— 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

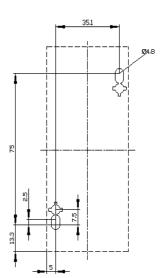
contact rating of auxiliary contacts according to UL	A600 / P600
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the main circuit	
- with type of coordination 1 required	gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)
— with type of assignment 2 required	gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)
for short-circuit protection of the auxiliary switch required	gG: 10 A (500 V, 1 kA)
Installation/ mounting/ dimensions	90. 10 A (000 V, 1 M)
	etending on beginned mounting surface
mounting position	standing, on horizontal 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	
— 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 	
— 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 mm ²)
 finely stranded with core end processing 	2x (1 6 mm ²)
 finely stranded without core end processing 	2x (1 6 mm ²)
connectable conductor cross-section for main contacts	(
solid	1 10 mm²
stranded	1 10 mm²
 finely stranded with core end processing 	1 6 mm ²
finely stranded with core end processing finely stranded without core end processing	1 6 mm ²
connectable conductor cross-section for auxiliary contacts	0.5 2.5 mm ²
solid or stranded	0.5 2.5 mm ²
finely stranded with core end processing	0.5 1.5 mm ²
finely stranded without core end processing	0.5 2.5 mm²
type of connectable conductor cross-sections	
for auxiliary contacts	
 — solid or stranded 	2x (0.5 2.5 mm ²)
	2x (0.5 1.5 mm²)
- finely stranded with core end processing	
 finely stranded with core end processing finely stranded without core end processing 	2x (0.5 2.5 mm²)
- finely stranded with core end processing	2x (0.5 2.5 mm²) 2x (20 14)
 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 AWG cables for auxiliary contacts AWG number as coded connectable conductor cross	
 finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts AWG number as coded connectable conductor cross section	2x (20 14)

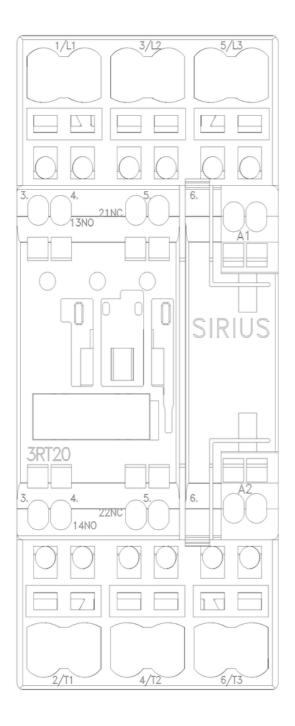
product function					
 mirror contact a 	ccording to IEC 60947-4-1	Y	′es		
310 value with high de	emand rate according to SN	N 31920 4	50 000		
proportion of danger	ous failures				
 with low demand 	d rate according to SN 319	20 4	0 %		
 with high demar 	nd rate according to SN 31	920 7	3 %		
	ow demand rate according		00 FIT		
	interval or service life acco		0 a		
61508	interval of service life acco		.0 a		
protection class IP or	n the front according to I	EC 60529	P20		
	the front according to IEC		nger-safe, for vertical contac	ct from the front	
suitability for use	J		<u>J</u>		
 safety-related sv 	witching OFF	Y	′es		
ertificates/ approvals					
General Product App	proval				
(SP)	<u>Confirmation</u>			<u>KC</u>	EHC
EMC	Functional Safety/Safety of Ma- chinery	Declaration of Co	nformity	Test Certificates	
	Type Examination Cer- tificate	UK	CE	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Certific</u> <u>ate</u>
Marine / Shinning			EG-Konf.		
Marine / Shipping	BUREAU		EG-Konf. Hoyd's Register Uts	PRS	RINA
Marine / Shipping	BURGAU VERITAS		Hoyd's Register	PRS	Environment
ABS	UREAU VERITAS Other Confirmation		Hoyd's Register	Railway Vibration and Shock	
Marine / Shipping Marine / Ship	Confirmation d to exit the Russian mari- com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned f ackaging /.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, B com/ic10 ordering system) emens.com/mall/en/en/Catalogs ion.siemens.com/WW/CAX anuals, Certificates, Char /.siemens.com/cs/ww/en/pi	e/siemens-wind-down rent EAC certificates tatus of validity of the EAEU member states ew/109813875 Brochures,) alog/product?mlfb=3F corder/default.aspx?la acteristics, FAQs,) s/3RT2024-2AB00-1A on drawings, 3D mod de.aspx?mlfb=3RT202 et-through current	Confirmation Confi	vibration and Shock	Environmental Con firmations
ABS Marine / Shipping Marine / Shipping Warine / Shipping Warine / Shipping Warine / Shipping Warine / Shipping Warine / Shipping Siemens has decided Mitps://press.siemens.c Siemens is working of Please contact your lo EAC relevant market (Information on the pay Information - and Dov Mittps://www.siemens.co Industry Mall (Online Mittps://support.industry. Service&Support (Ma Mittps://support.industry mage database (proo Mittp://support.industry mage database (proo Mittp://support.industry mage database (proo Mittp://support.industry mage database (proo	Confirmation d to exit the Russian mark com/global/en/pressrelease on the renewal of the curr cal Siemens office on the s other than the sanctioned I ackaging /.siemens.com/cs/ww/en/vi wnloadcenter (Catalogs, I com/ic10 ordering system) emens.com/mall/en/en/Cata ion.siemens.com/cs/ww/en/pr duct images, 2D dimension .siemens.com/bilddb/cax_com ing characteristics, I ² t, Lec /.siemens.com/cs/ww/en/pr duct images, 2D dimension .siemens.com/cs/ww/en/pr duct images, 2D dimension .siemens.com/cs/ww/en/pr	e/siemens-wind-down rent EAC certificates tatus of validity of the EAEU member states ew/109813875 Brochures,) alog/product?mlfb=3F corder/default.aspx?la acteristics, FAQs,) s/3RT2024-2AB00-1A on drawings, 3D mod be.aspx?mlfb=3RT202 det.shrough current s/3RT2024-2AB00-1A nce, switching frequ	Confirmation Confi	Vibration and Shock nd to import or offer to supp 00-1AA0 ns, EPLAN macros,)	Environmental Con firmations

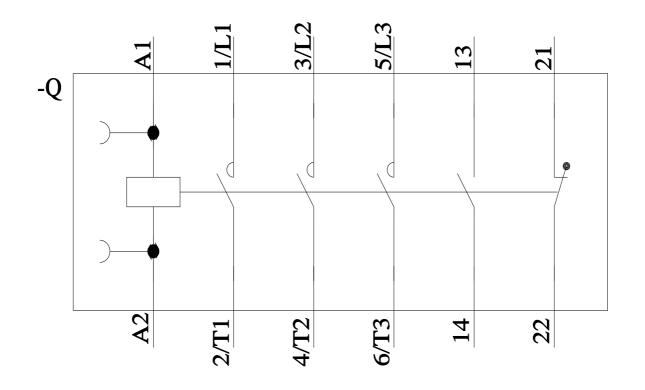
7/6/2023











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