SIEMENS

Data sheet

3RT2046-1KB40-1AA0



power contactor, AC-3e/AC-3, 95 A, 45 kW / 400 V, 3-pole, 24 V DC, 0.8-1.2* Us, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S3, suitable for PLC outputs, upright mounting position

product brand name	SIRIUS			
product designation	Coupling contactor			
product type designation	3RT2			
General technical data				
size of contactor	S3			
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 	19.8 W			
 at AC in hot operating state per pole 	6.6 W			
 without load current share typical 	0.9 W			
insulation voltage				
 of main circuit with degree of pollution 3 rated value 	1 000 V			
 of auxiliary circuit with degree of pollution 3 rated value 	690 V			
surge voltage resistance				
 of main circuit rated value 	8 kV			
 of auxiliary circuit rated value 	6 kV			
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	690 V			
shock resistance at rectangular impulse				
• at AC	10.3g / 5 ms, 6,.g / 10 ms			
• at DC	6.3 g / 5 ms, 3.6 g / 10 ms			
shock resistance with sine pulse				
• at AC	16.3g / 5 ms, 10.g / 10 ms			
• at DC	9.8 g / 5 ms, 5.6 g / 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)	03/01/2017			
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8			
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	1 000 V
at AC-3e rated value maximum	1 000 V
operational current	
at AC-1 at 400 V at ambient temperature 40 °C rated	130 A
value	
• at AC-1	
— up to 690 V at ambient temperature 40 °C rated value	130 A
— up to 690 V at ambient temperature 60 °C rated value	110 A
• at AC-3	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-3e	
— at 400 V rated value	95 A
— at 500 V rated value	95 A
— at 690 V rated value	78 A
— at 1000 V rated value	30 A
• at AC-4 at 400 V rated value	80 A
• at AC-5a up to 690 V rated value	114 A
at AC-5b up to 400 V rated value	95 A
• at AC-6a	
— up to 230 V for current peak value n=20 rated value	84.4 A
— up to 400 V for current peak value n=20 rated value	84.4 A
— up to 500 V for current peak value n=20 rated value	84.4 A
— up to 690 V for current peak value n=20 rated value	58 A
• at AC-6a	
— up to 230 V for current peak value n=30 rated value	56.3 A
— up to 400 V for current peak value n=30 rated value	56.3 A
— up to 500 V for current peak value n=30 rated value	56.3 A
— up to 690 V for current peak value n=30 rated value	56.3 A
minimum cross-section in main circuit at maximum AC-1 rated value	50 mm ²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	42 A
at 690 V rated value	30 A
operational current	
at 1 current path at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	60 A
— at 110 V rated value	9 A
— at 220 V rated value	2 A
— at 440 V rated value	0.6 A
— at 600 V rated value	0.4 A
with 2 current paths in series at DC-1	
— at 24 V rated value	100 A
— at 60 V rated value	100 A
— at 100 V rated value	100 A
— at 220 V rated value	10 A
	1.8 A
- at 440 V rated value	
— at 600 V rated value	1 A
with 3 current paths in series at DC-1	400.4
— at 24 V rated value	100 A

— at 60 V rated value	100 A				
— at 110 V rated value	100 A				
— at 220 V rated value	80 A				
— at 440 V rated value	4.5 A				
— at 600 V rated value	2.6 A				
 at 1 current path at DC-3 at DC-5 					
— at 24 V rated value	40 A				
— at 60 V rated value	6 A				
— at 110 V rated value	2.5 A				
— at 220 V rated value	1 A				
— at 440 V rated value	0.15 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	100 A				
— at 60 V rated value	100 A				
— at 110 V rated value	100 A				
— at 220 V rated value	7 A				
— at 440 V rated value	0.42 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	100 A				
— at 60 V rated value	100 A				
— at 110 V rated value	100 A				
— at 220 V rated value	35 A				
— at 440 V rated value	0.8 A				
— at 600 V rated value	0.35 A				
operating power					
at AC-2 at 400 V rated value	45 kW				
• at AC-3					
— at 230 V rated value	22 kW				
— at 400 V rated value					
— at 500 V rated value	45 kW 55 kW				
— at 690 V rated value					
	75 kW				
— at 1000 V rated value	37 kW				
• at AC-3e	00 MM				
— at 230 V rated value	22 kW				
— at 400 V rated value	45 kW				
— at 500 V rated value	55 kW				
— at 690 V rated value	75 kW				
— at 1000 V rated value	37 kW				
operating power for approx. 200000 operating cycles at AC- 4					
 at 400 V rated value 	22 kW				
at 400 V rated value at 690 V rated value	27.4 kW				
operating apparent power at AC-6a					
up to 230 V for current peak value n=20 rated value	33 kVA				
• up to 400 V for current peak value n=20 rated value	58 kVA				
 up to 500 V for current peak value n=20 rated value 	73 kVA				
 up to 500 V for current peak value n=20 rated value up to 690 V for current peak value n=20 rated value 	69 kVA				
operating apparent power at AC-6a	22.4 1/10				
up to 230 V for current peak value n=30 rated value	22.4 KVA				
• up to 400 V for current peak value n=30 rated value	39 kVA				
• up to 500 V for current peak value n=30 rated value	48.7 kVA				
up to 690 V for current peak value n=30 rated value	67.3 kVA				
short-time withstand current in cold operating state up to 40 °C					
 limited to 1 s switching at zero current maximum 	1 725 A; Use minimum cross-section acc. to AC-1 rated value				
Imited to 1 s switching at zero current maximum Imited to 5 s switching at zero current maximum	1 297 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum 	946 A; Use minimum cross-section acc. to AC-1 rated value				
-	610 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum 	486 A; Use minimum cross-section acc. to AC-1 rated value				
 limited to 60 s switching at zero current maximum 	TOUR, USE MINIMUM GUSS-SECTION ACC. TO AC- I LATER VALUE				

no-load switching frequency					
• at DC	1 000 1/h				
operating frequency					
● at AC-1 maximum	900 1/h				
• at AC-2 maximum	350 1/h				
• at AC-3 maximum	850 1/h				
• at AC-3e maximum	850 1/h				
• at AC-4 maximum	250 1/h				
Control circuit/ Control					
type of voltage of the control supply voltage	DC				
control supply voltage at DC					
rated value	24 V				
operating range factor control supply voltage rated value of magnet coil at DC					
• initial value	0.8				
• full-scale value	1.2				
design of the surge suppressor	with varistor				
inrush current peak	2.7 A				
duration of inrush current peak	50 µs				
locked-rotor current mean value	0.9 A				
locked-rotor current peak	2.1 A				
duration of locked-rotor current	150 ms				
holding current mean value	40 mA				
closing power of magnet coil at DC	25 W				
holding power of magnet coil at DC	0.9 W				
closing delay					
• at DC	50 70 ms				
opening delay					
• at DC	38 57 ms				
arcing time	10 20 ms				
control version of the switch operating mechanism	Standard A1 - A2				
control version of the switch operating mechanism Auxiliary circuit	Standard A1 - A2				
	Standard A1 - A2 1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous					
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous	1				
Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact	1				
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	1				
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	1 1 10 A				
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	1 1 10 A 6 A				
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	1 1 10 A 6 A 3 A				
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 500 V rated value	1 1 10 A 6 A 3 A 2 A				
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 500 V rated value • at 690 V rated value	1 1 10 A 6 A 3 A 2 A				
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	1 1 10 A 6 A 3 A 2 A 1 A				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A				
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 500 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 48 V rated value • at 400 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A				
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 500 V rated value • at 690 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 60 V rated value • at 110 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 3 A				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A				
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 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 400 V rated value • at 24 V rated value • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A				
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 500 V rated value • at 690 V rated value • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 24 V rated value • at 20 V rated value • at 20 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 10				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 10 1				
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	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A				
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	1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10				
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 500 V rated value • at 690 V rated value • at 690 V rated value • at 60 V rated value • at 400 V rated value • at 60 V rated value • at 400 V rated value • at 60 V rated value • at 220 V rated value • at 110 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 48 V rated value • at 600 V rated value • at 48 V rated value • at 400 V rated value • at 60 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A				
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 500 V rated value • at 690 V rated value • at 690 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value • at 220 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 240 V rated value • at 600 V rated value • at 240 V rated value	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A				
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 500 V rated value • at 690 V rated value • at 690 V rated value • at 690 V rated value • at 48 V rated value • at 400 V rated value • at 60 V rated value • at 24 V rated value • at 25 V rated value • at 10 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 220 V rated value • at 24 V rated value	1 1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A 10 A 6 A 1 A 10 A 6 A 1 A 10 A 6 A 3 A 2 A 1 A 1 A 0 .15 A 10 A 0 .15 A				
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 690 V rated value at 600 V rated value at 410 V rated value at 600 V rated value at 24 V rated value at 60 V rated value at 110 V rated value at 125 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 110 V rated value at 110 V rated value at 220 V rated value at 24 V rated value at 24 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 220 V rated value at 24 V rated value at 25 V rated value at 20 V rated value at 220 V rated value at 600 V rated value at 600 V rated	1 1 10 A 6 A 3 A 2 A 1 A 10 A 6 A 3 A 2 A 1 A 10 A 6 A 1 A 10 A 6 A 3 A 2 A 1 A 0.15 A				

 at 480 V rated value 	96 A					
 at 600 V rated value 	77 A					
yielded mechanical performance [hp]						
 for single-phase AC motor 						
— at 110/120 V rated value	10 hp					
— at 230 V rated value	20 hp					
• for 3-phase AC motor						
— at 200/208 V rated value	30 hn					
— at 220/230 V rated value	30 hp					
	30 hp					
— at 460/480 V rated value	75 hp					
— at 575/600 V rated value	75 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: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)					
— with type of assignment 2 required	gG: 160 A (690 V, 100 kA), aM: 100 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)					
 for short-circuit protection of the auxiliary switch required 	gG: 10 A (500 V, 1 kA)					
Installation/ mounting/ dimensions						
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	140 mm					
width	70 mm					
depth	152 mm					
required spacing						
 with side-by-side mounting 						
— forwards	20 mm					
— upwards	10 mm					
— downwards	10 mm					
— at the side	0 mm					
for grounded parts						
— forwards	20 mm					
— upwards	10 mm					
— at the side	10 mm					
— downwards	10 mm					
 for live parts 						
— forwards	20 mm					
— upwards	10 mm					
— downwards	10 mm					
— at the side	10 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 two of connectable conductor cross sections for main contacts	Screw-type terminals					
type of connectable conductor cross-sections for main contacts						
finely stranded with core end processing	2x (2.5 35 mm²), 1x (2.5 50 mm²)					
connectable conductor cross-section for main contacts						
• solid	2.5 16 mm²					
stranded	6 70 mm²					
 finely stranded with core end processing 	2.5 50 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 mm ²					
type of connectable conductor cross-sections						
for auxiliary contacts						
- solid or stranded	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)					
	$2 \times (0.0 \dots 1.0 \text{ IIIIII}), 2 \times (0.70 \dots 2.0 \text{ IIIIII})$					

- finely strand	led with core end process	ina	2x (0.5 1.5 mm ²	²). 2x (0.75	2.5 mm ²)		
-	 for AWG cables for auxiliary contacts 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)				
	d connectable conducto	r cross					
for main contacts		10 2					
 for auxiliary containing 	acts		20 14				
Safety related data							
product function							
-	cording to IEC 60947-4-1		Yes				
	positively driven operation according to IEC 60947-4-1		No				
	suitability for use safety-related switching OFF		Yes				
	nand rate according to SN	I 31920	1 000 000				
proportion of dangero							
	rate according to SN 319	20	40 %				
	d rate according to SN 319		73 %				
	w demand rate according		100 FIT				
	nterval or service life acco		20 a				
protection class IP on	the front according to II	EC 60529	IP20				
touch protection on th	e front according to IEC	60529	finger-safe, for ver	rtical contact	from the front		
Certificates/ approvals	-		-				
General Product App	oval						
<u>وت</u>	Functional		ų	Ľ ש		EHL	
EMC	Safety/Safety of Ma- chinery	Declaration of	Conformity		Test Certificates		
RCM	<u>Type Examination Cer-</u> tificate	UK CA	C	E Konf.	<u>Type Test Certific-</u> ates/Test Report	Special Test Certific- ate	
Marine / Shipping							
ABS		Lloyd's Register uis	PI	RS	RINA	RMRS RARS	
other	Railway	Environment					
Confirmation	Vibration and Shock	Environmental (firmations	Con-				

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

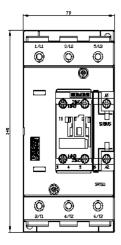
Industry Mall (Online ordering system)

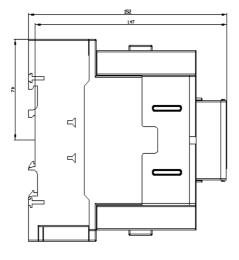
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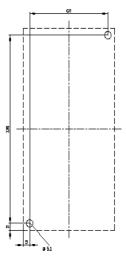
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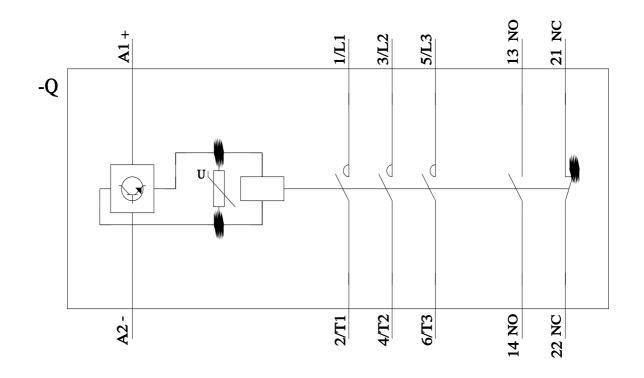
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2046-1KB40-1AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1KB40-1AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2046-1KB40-1AA0&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2046-1KB40-1AA0/char Further characteristics (e.g. electrical endurance, switching frequency)











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