SIEMENS

Data sheet 3RT2518-1BF40



power contactor, AC-3, 16 A, 7.5 kW / 400 V, 4-pole, 110 V DC, main contacts: 2 NO + 2 NC, screw terminal, size: S00 $\,$

product brand name SIRIUS product designation contactor product yee designation 3RT25 General technical data size of contactor product extension • function module for communication • function module for communication • function woltage • of main circuit with degree of pollution 3 rated value • of auxiliary vicual with degree of pollution 3 rated value • of main circuit rated value • of main product extension • function module for protective separation between coll and main contacts according to ED 80047-1 shock resistance at rectangular impulse • at DC 11.4g / 5 ms, 7.3g / 10 ms shock resistance with sine pulse • at DC 11.4g / 5 ms, 7.3g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contac			
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number of NC contacts for main contacts 2 operational current	number of poles for main current circuit	4	
operational current	number of NO contacts for main contacts	2	
	number of NC contacts for main contacts	2	
• at AC-1 up to 690 V	operational current		
	• at AC-1 up to 690 V		

■ at anxibent temperature 80 °C rated value		
and AC2 at AC3 at AC9 W per NO contact rated value per NC contact rated value per NC contact rated value per NC contact rated value and value per NC contact rated value and value an	— at ambient temperature 40 °C rated value	22 A
— per NC contact rated value	·	20 A
— per NC contact rated value value value value value value value • at 1 current path at DC-1 — at 24 V rated value — at 120 V rated value — at 120 V rated value — at 120 V rated value — at 140 V rated value — at 10 V rated value — at 10 V rated value — at 10 V rated value — at 24 V rated value — at 26 V rated value — at 27 V rated value — at 28 V rated value — at 28 V rated value — at 29 V rated value — at 20 V rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 20 V per NC contact rated value — at 110 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC contact rated value — at 20 V per NC co	• at AC-2 at AC-3 at 400 V	
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= 11 24 V rated value	operational current	
at 110 V rated value	• at 1 current path at DC-1	
at 220 V rated value	— at 24 V rated value	20 A
	— at 110 V rated value	2.1 A
with 2 current paths in series at DC-1 — at 32 V retet value — at 140 V rated value — at 420 V per NC contact rated value — at 22 V per NC contact rated value — at 22 V per NC contact rated value — at 110 V per NC contact rated value — at 110 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 224 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 24 V per NC contact rated value — at 220 V per NC contact rated value — at 220 V per NC contact rated value — at 320 V per NC contact rated value — at 410 V per NC contact rated value 0.35 A experising power at AC2 at AC3 a 220 V per NC contact rated value a 400 V per NC contact	— at 220 V rated value	0.8 A
	— at 440 V rated value	0.6 A
- at 110 V rated value	with 2 current paths in series at DC-1	
at 220 V rated value	— at 24 V rated value	20 A
- at 440 V rated value	— at 110 V rated value	12 A
* at 1 current path at DC-3 at DC-5 * — at 24 V per NC contact rated value * — at 110 V per NC contact rated value * — at 1110 V per NC contact rated value * — at 1110 V per NC contact rated value * — at 1110 V per NC contact rated value * — at 1110 V per NC contact rated value * — at 220 V per NC contact rated value * — at 220 V per NC contact rated value * — at 220 V per NC contact rated value * — at 220 V per NC contact rated value * — with z current paths in series at DC-3 at DC-5 * — at 24 V per NC contact rated value * — at 24 V per NC contact rated value * — at 110 V per NC contact rated value * — at 110 V per NC contact rated value * — at 110 V per NC contact rated value * — at 110 V per NC contact rated value * — at 230 V per NC contact rated value * — at 230 V per NC contact rated value * at 230 V per NC contact rated value * at 230 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * at 400 V per NC contact rated value * bimited to 1 s switching at zero current maximum * bimited to 5 s switching at zero current maximum * bimited to 5 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current maximum * bimited to 6 s switching at zero current m	— at 220 V rated value	1.6 A
- at 24 V per NC contact rated value 20 A 20	— at 440 V rated value	0.8 A
- at 24 V per NC contact rated value	'	
- at 110 V per NO contact rated value	·	
	·	
with 2 current paths in series at DC-3 at DC-5 = 12 4V per NC contact rated value = 12 4V per NC contact rated value = 11 10 V per NC contact rated value = 11 10 V per NC contact rated value = 11 110 V per NC contact rated value = 11 110 V per NC contact rated value = 12 30 V per NC contact rated value = 12 30 V per NC contact rated value = 12 30 V per NC contact rated value = 12 30 V per NC contact rated value = 12 30 V per NC contact rated value = 14 400 V per NC contact rated value = 14 400 V per NC contact rated value = 16 Ac U per NC contact rated value of the coperational current per conductor = 16 Ac U per NC contact rated value of the coperational current per conductor = 16 Ac U per NC contact rated value = 16 Ac U per NC contact rated value = 16 Ac U per NC con	·	
with 2 current paths in series at DC-3 at DC-5	·	
- at 24 V per NC contact rated value 20 A 20 A 21 4 V per NO contact rated value 20 A 20 A 34 V per NO contact rated value 210 V per NC contact rated value 215 A 35 A	•	0.75 A
- at 110 V per NO contact rated value		
- at 110 V per NC contact rated value 0.35 A operating power at AC-2 at AC-3 • at 230 V per NC contact rated value 2.2 kW • at 230 V per NC contact rated value 4 kW • at 400 V per NC contact rated value 7.5 kW short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum 165 A; Use minimum cross-section acc. to AC-1 rated value 118 A; Use minimum cross-section acc. to AC-1 rated value 2.2 kW • limited to 5 s switching at zero current maximum 2.2 k ; Use minimum cross-section acc. to AC-1 rated value 2.2 k ; Use minimum cross-section acc. to AC-1 rated value 3.2 k; Use minimum cross-section acc. to AC-1 rated value 4.3 k; Use minimum cross-section acc. to AC-1 rated value 4.4 k; Use minimum cross-section acc. to AC-1 rated value 5.4 k; Use minimum cross-section acc. to AC-1 rated value 6.4 k; Use minimum cross-section acc. to AC-1 rated value 7.4 k; Use minimum cross-sect	•	
operating power at AC-2 at AC-3 • at 230 V per NC contact rated value • at 230 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value • at 400 V per NC contact rated value **T.5 kW **Short-time withstand current in cold operating state up to 40 °C • limited to 1 s switching at zero current maximum • limited to 5 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum • 22 k. Use minimum cross-section acc. to AC-1 rated value power loss [W] at AC-3 at 400 V for rated value of the operating frequency • at AC • at DC • at AC • at AC-1 maximum • 10000 1/h • operating frequency • at AC-1 maximum • 10001 1/h • operating frequency • at AC-1 maximum • 10001 1/h • operating ange factor control supply voltage control circuit/ Control type of voltage of the control supply voltage rated value of magnet coil at DC • rated value • (initial valu		
e at 230 V per NC contact rated value e at 230 V per NC contact rated value e at 230 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value e at 400 V per NC contact rated value 7.5 kW short-time withstand current in cold operating state up to 40 °C e limited to 1 s switching at zero current maximum e limited to 5 s switching at zero current maximum e limited to 5 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 30 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 s switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at zero current maximum e limited to 60 switching at 2ero current maximum e limited to 60 switching at 2ero current maximum e limited to 60 switching at 2ero current maximum e limited to 60 switching at 2ero current maximum e limited to 60 switching at 2	·	
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Ilimited to 1 s switching at zero current maximum 165 A; Use minimum cross-section acc. to AC-1 rated value	· · · · · · · · · · · · · · · · · · ·	7.5 KVV
Imited to 5 s switching at zero current maximum Initial to 10 s switching at zero current maximum Initial to 10 s switching at zero current maximum Initial to 30 s switching at zero current per conductor and section acc. to AC-1 rated value Initial to 40 s switching at zero current maximum Initial to 40 s switching at zero current maximum Initial to 40 s switching at zero current maximum Initial value Initial to 40 s switching at zero current maximum Initial value Initial to 40 s switching at zero current maximum Initial value Initial to 40 s switching at zero current maximum Initial value Initial to 40 s switching at zero current maximum Initial value Initial to 40 s switching at zero	40 °C	
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Ilimited to 60 s switching at zero current maximum	 limited to 10 s switching at zero current maximum 	128 A; Use minimum cross-section acc. to AC-1 rated value
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency	 limited to 30 s switching at zero current maximum 	92 A; Use minimum cross-section acc. to AC-1 rated value
operational current per conductor no-load switching frequency	limited to 60 s switching at zero current maximum	74 A; Use minimum cross-section acc. to AC-1 rated value
• at AC • at DC 10 000 1/h operating frequency • at AC-1 maximum 1 000 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value 110 ∨ operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.1 inductive power factor with closing power of the coil closing power of magnet coil at DC 4 W holding power of magnet coil at DC 4 W closing delay	•	2.2 W
at DC operating frequency at AC-1 maximum 1 000 1/h control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC rated value orange factor control supply voltage rated value of magnet coil at DC initial value full-scale value 1.1 inductive power factor with closing power of the coil closing power of magnet coil at DC 4 W holding power of magnet coil at DC 4 W closing delay	no-load switching frequency	
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at AC-1 maximum 1 000 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at DC • rated value 110 V operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value 1.1 inductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC total at DC 4 W closing delay	• at DC	10 000 1/h
type of voltage of the control supply voltage control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value inductive power factor with closing power of the coil closing power of magnet coil at DC 4 W holding power of magnet coil at DC 4 W closing delay	operating frequency	
type of voltage of the control supply voltage control supply voltage at DC	• at AC-1 maximum	1 000 1/h
control supply voltage at DC • rated value operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value inductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC closing delay 110 V 0.8 1.1 1.1 4 W 4 W 1.1 1.1 1.1 1.1 1.1 1.1 1.1 1	Control circuit/ Control	
rated value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value inductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC closing delay 110 V 0.8 1.1 1.4 4 W 1.5 4 W 1.7 4 W 1.8 1.9 1.9 1.9 1.9 1.9 1.9 1.9	type of voltage of the control supply voltage	DC
operating range factor control supply voltage rated value of magnet coil at DC • initial value • full-scale value inductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC closing delay		
magnet coil at DC initial value tull-scale value tinductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC closing delay		110 V
● full-scale value inductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC 4 W closing delay		
inductive power factor with closing power of the coil closing power of magnet coil at DC holding power of magnet coil at DC 4 W closing delay	initial value	0.8
closing power of magnet coil at DC 4 W holding power of magnet coil at DC 4 W closing delay	full-scale value	1.1
holding power of magnet coil at DC 4 W closing delay	inductive power factor with closing power of the coil	0.8
closing delay	closing power of magnet coil at DC	4 W
	holding power of magnet coil at DC	4 W
• at DC 30 100 ms	closing delay	
	• at DC	30 100 ms

ononing dolay	
opening delay	7 13 ms
• at DC	
arcing time Auxiliary circuit	10 15 ms
number of NC contacts for auxiliary contacts instantaneous contact	0
number of NO contacts for auxiliary contacts instantaneous contact	0
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
operational current at DC-12	
• 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 at 220 V rated value	1 A
at 220 V rated value at 600 V rated value	0.3 A
at 600 V rated value	0.1 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings	
yielded mechanical performance [hp]	2 hn
• for 3 phase AC motor at 460/480 V rated value	2 hp
• for 3-phase AC motor at 460/480 V rated value	5 hp
contact rating of auxiliary contacts according to UL	A600 / Q600
Short-circuit protection	
design of the fuse link • for short-circuit protection of the main circuit	
 for short-circuit protection of the main circuit — with type of coordination 1 required 	gG: 35 A (690 V, 100 kA)
with type of coordination 1 required with type of assignment 2 required	gG: 35 A (690 V, 100 kA) gG: 20A (690V, 100kA)
 with type of assignment 2 required for short-circuit protection of the auxiliary switch required 	gG: 20A (690V, 100KA) fuse gG: 10 A
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	90. 10.11
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 50022
• side-by-side mounting	Yes
height	57.5 mm
width	45 mm
depth required spacing	73 mm
required spacing	
with side-by-side mounting forwards	0 mm
— forwards — backwards	0 mm
— backwards — upwards	
— upwards — downwards	0 mm
downwards at the side	0 mm 0 mm
at the sidefor grounded parts	- IIIII
for grounded parts forwards	0 mm
— torwards — backwards	0 mm
— packwards — upwards	0 mm
— upwards — at the side	0 mm 6 mm
at the side downwards	6 mm 0 mm
downwards for live parts	V
- 101 HVO parto	
— forwards	0 mm

0 mm - backwards – upwards 0 mm - downwards $0 \, \text{mm}$ — at the side 6 mm type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals • of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), 2x 4 mm² · solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² - solid 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing • for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14), 2x 12 AWG number as coded connectable conductor cross section for 20 ... 12 main contacts Safety related data product function • mirror contact according to IEC 60947-4-1 Yes; with 3RH29 • positively driven operation according to IEC 60947-5-1 No T1 value for proof test interval or service life according to IEC 20 a IP20 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front

Certificates/ approvals

General Product Approval

EMC





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping













other

Railway

Dangerous Good

Environment

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=3RT2518-1BF40

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2518-1BF40}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1BF40

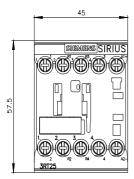
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

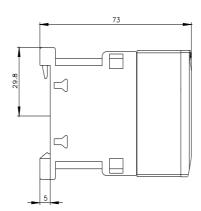
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2518-1BF40&lang=en

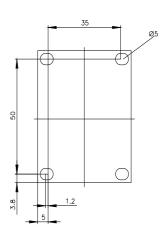
Characteristic: Tripping characteristics, I^2t , Let-through current

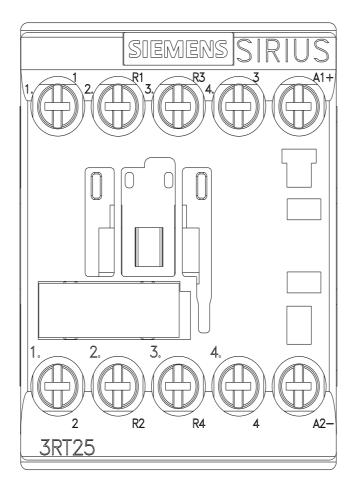
https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1BF40/char

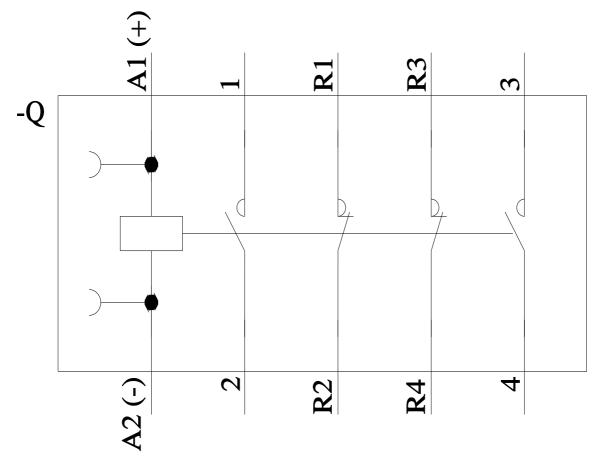
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2518-1BF40&objecttype=14&gridview=view1











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