SIEMENS

Data sheet 3RT2518-1BG40

Power contactor, AC-3 16 A, 7.5 kW, 400 V 2 NO + 2 NC 125 V DC 4-pole Size S00 screw terminals



Product brand name	SIRIUS
Product designation	contactor
Product type designation	3RT25

S00
No
Yes
6 kV
6 kV
400 V
IP20
IP20
7.3g / 5 ms, 4.7g / 10 ms

Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during storage 2 000 m -25 +60 °C -55 +80 °C	Shock resistance with sine pulse	
of the contactor vith added electronics-compatible 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 Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at helight above sea level maximum 2 000 m Ambient temperature during operation our contacts for main current circuit Number of poles for main current circuit Number of NC contacts for main contacts 2 Number of NC contacts for main contacts 2 Number of NC contacts for main contacts 2 Number of NC sontacts for main contacts 2 Number of NC contact for main contacts 2 Number of NC contact for main contacts 2 Number of NC contact for main contacts 2 Operating current at AC-1 — up to 690 V at ambient temperature 40 °C rated value at AC-2 at AC-3 at 400 V — per NC contact rated value at AC-2 at AC-3 at 400 V — per NC contact rated value at 40 °C minimum permissible Connectable conductor cross-section in main circuit at AC-1 at 40 °C minimum permissible at 40 °C minimum permissible 4 mm² Operating current at 1 current path at DC-1 at 24 V rated value at 410 V rated value at 440 V rated value at 410 V rated value	• at DC	11,4g / 5 ms, 7,3g / 10 ms
• of the contactor with added electronics-compatible auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at helpht above sea level • maximum • during operation • during storage • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NC contact rated value — per NC contact rated value — per NC contact rated value — at 60 °C minimum permissible • at 60 °C minimum permissible • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 10 V rated value — at 22 V rated value — at 24 V rated value — at 210 V rated value — at 110 V rated value — at 110 V rated value	Mechanical service life (switching cycles)	
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of the contactor with added auxiliary switch block typical Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage Altitude of No contacts for main current circuit Number of NO contacts for main contacts Q Vain circuit Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q Vain circuit A Number of NO contacts for main contacts Q Q A A A A A A A A A C - up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — at AC-2 at AC-3 at 400 V — per NO contact rated value — per NO contact rated value — per NC contact rated value — per NC contact rated value — at 40 °C minimum permissible — at 40 °C minimum permissible — at 410 °C minimum permissible — at 410 °C minimum permissible — at 410 °C minimum permissible — at 110 V rated value — at 22 V rated value — at 22 V rated value — at 24 V rated value	 of the contactor with added electronics- 	5 000 000
Reference code acc. to DIN EN 81346-2 Q Ambient conditions Installation altitude at height above sea level • maximum • during operation • during operation • during storage Ambient temperature • during operation • during storage Ambient or of NC contacts for main current circuit Number of NO contacts for main contacts Q Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value — per NC contact rated value — per NC contact rated value — at 60 °C minimum permissible • at 40 °C minimum permissible • at 10 °C rated value • at 20 A — at 24 V rated value — at 220 V rated value — at 24 V rated value — at 20 A — at 24 V rated value — at 24 V rated value — at 20 A — at 24 V rated value — at 24 V rated value — at 24 V rated value — at 20 A — at 24 V rated value	compatible auxiliary switch block typical	
Reference code acc. to DIN EN 81346-2 Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage **Main circuit* **Number of poles for main current circuit **Number of NO contacts for main contacts **Departing current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value — per NC contact rated value • at 60 °C minimum permissible • at 40 °C minimum p	-	10 000 000
Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage -25 +60 °C -55 +80 °C Wain circuit Number of poles for main current circuit Number of NO contacts for main contacts 2 Number of NC contacts for main contacts 2 Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — up to Contact rated value 9 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value • at 440 V rated value — at 240 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value		
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* during storage * 55 +80 °C **Main circuit **Number of poles for main current circuit **Number of NO contacts for main contacts **Number of NC contacts for main contacts **Operating current ** at AC-1 up to 690 V at ambient temperature 40 °C rated value up to 690 V at ambient temperature 60 °C rated value **Operating current **at AC-2 at AC-3 at 400 V per NO contact rated value per NC contact rated value per NC contact rated value **at 60 °C minimum permissible **at 40 °C minimum permissible **at 40 °C minimum permissible **at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 440 V rated value at 440 V rated value at 440 V rated value at 24 V rated value at 110 V rated value	Ambient temperature	
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Number of poles for main current circuit Number of NO contacts for main contacts 2 Number of NC contacts for main contacts 2 Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value • at AC-2 at AC-3 at 400 V — per NC contact rated value • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 24 V rated value — at 110 V rated value	Main circuit	
Number of NC contacts for main contacts Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	Number of poles for main current circuit	4
Operating current • at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value 9 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • at 110 V rated value • at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	Number of NO contacts for main contacts	2
at AC-1 — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value 9 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 220 V rated value — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • at 110 V rated value — at 110 V rated value	Number of NC contacts for main contacts	2
— up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value 9 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible 4 mm² Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 440 V rated value — at 220 V rated value — at 24 V rated value — at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value	Operating current	
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rated value • at AC-2 at AC-3 at 400 V — per NO contact rated value — per NC contact rated value Sometable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value • at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • at 24 V rated value • at 24 V rated value • at 440 V rated value • at 24 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • at 110 V rated value • at 110 V rated value 12 A		22 A
— per NO contact rated value 9 A Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible 2.5 mm² • at 40 °C minimum permissible 4 mm² Operating current • at 1 current path at DC-1 — at 24 V rated value 2.1 A — at 110 V rated value 0.8 A — at 440 V rated value 0.6 A • with 2 current paths in series at DC-1 — at 24 V rated value 2.1 A — at 24 V rated value 2.1 A — at 440 V rated value 3.8 A — at 440 V rated value 3.8 A — at 440 V rated value 3.9 A		20 A
— per NC contact rated value Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible • at 40 °C minimum permissible 4 mm² Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 12 A	• at AC-2 at AC-3 at 400 V	
Connectable conductor cross-section in main circuit at AC-1 • at 60 °C minimum permissible • at 40 °C minimum permissible 4 mm² Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value • at 110 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 12 A	 per NO contact rated value 	16 A
at AC-1 ● at 60 °C minimum permissible ● at 40 °C minimum permissible 4 mm² Operating current ● at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value ● with 2 current paths in series at DC-1 — at 24 V rated value ■ at 110 V rated value ■ at 24 V rated value ■ at 440 V rated value ■ at 24 V rated value ■ at 24 V rated value — at 110 V rated value	 per NC contact rated value 	9 A
 at 40 °C minimum permissible Operating current at 1 current path at DC-1 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value 12 A 		
Operating current • at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 12 A	• at 60 °C minimum permissible	2.5 mm²
 at 1 current path at DC-1 — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value 20 A 0.8 A 0.6 A • with 2 current paths in series at DC-1 — at 24 V rated value 20 A 12 A 	• at 40 °C minimum permissible	4 mm²
 at 24 V rated value at 110 V rated value at 220 V rated value at 440 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value 12 A 	Operating current	
 at 110 V rated value at 220 V rated value at 440 V rated value with 2 current paths in series at DC-1 at 24 V rated value at 110 V rated value 12 A 	• at 1 current path at DC-1	
 — at 220 V rated value — at 440 V rated value • with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 12 A 	— at 24 V rated value	20 A
 — at 440 V rated value ● with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 12 A 	— at 110 V rated value	2.1 A
 with 2 current paths in series at DC-1 — at 24 V rated value — at 110 V rated value 12 A 	— at 220 V rated value	0.8 A
 at 24 V rated value at 110 V rated value 12 A 	— at 440 V rated value	0.6 A
— at 110 V rated value 12 A	 with 2 current paths in series at DC-1 	
	— at 24 V rated value	20 A
— at 220 V rated value 1.6 A	— at 110 V rated value	12 A
	— at 220 V rated value	1.6 A

Operating current	
• at 1 current path at DC-3 at DC-5	
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A
— at 110 V per NC contact rated value	0.075 A
— at 110 V per NO contact rated value	0.15 A
— at 220 V per NC contact rated value	0.375 A
— at 220 V per NO contact rated value	0.75 A
• with 2 current paths in series at DC-3 at DC-5	
— at 24 V per NC contact rated value	20 A
— at 24 V per NO contact rated value	20 A
— at 110 V per NC contact rated value	0.175 A
— at 110 V per NO contact rated value	0.35 A
Operating power	
• at AC-1	
— at 230 V rated value	7.5 kW
— at 400 V rated value	13 kW
• at AC-2 at AC-3	
— at 230 V per NC contact rated value	2.2 kW
— at 230 V per NO contact rated value	4 kW
— at 400 V per NC contact rated value	4 kW
— at 400 V per NO contact rated value	7.5 kW
Power loss [W] at AC-3 at 400 V for rated value of	2.2 W
the operating current per conductor	
No-load switching frequency	
• at AC	10 000 1/h
• 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	DC
Control supply voltage at DC	
• rated value	125 V
Operating range factor control supply voltage rated value of magnet coil at DC	
● initial value	0.8
• Full-scale value	1.1
Inductive power factor with closing power of the coil	0.8
Closing power of magnet coil at DC	4 W
Holding power of magnet coil at DC	4 W
OL -1 - LI	

0.8 A

- at 440 V rated value

Closing delay

30 100 ms
7 13 ms
10 15 ms

Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	0
Number of NO contacts for auxiliary contacts	
• instantaneous contact	0
Operating current at AC-12 maximum	10 A
Operating current at AC-15	
• at 230 V rated value	10 A
• at 400 V rated value	3 A
Operating 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
Operating current at DC-13	
• at 24 V rated value	10 A
• at 48 V rated value	2 A
• at 60 V rated value	2 A
• at 110 V rated value	1 A
• at 220 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]	
• for single-phase AC motor	
 — at 110/120 V rated value 	1 hp
— at 230 V rated value	2 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

— with type of coordination 1 required

— with type of assignment 2 required

• for short-circuit protection of the auxiliary switch required

gG: 35 A (690 V, 100 kA)

gG: 20A (690V, 100kA)

fuse gG: 10 A

nstallation/ mounting/ dimensions	
Mounting position	+/-180° rotation possible on vertical mounting surface; can be
	tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type	screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022
Side-by-side mounting	Yes
Height	57.5 mm
Width	45 mm
Depth	73 mm
Required spacing	
with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm
Connections/Terminals	
Type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections	
• for main contacts	0 (0 5 4 5 3) 0 (0 75 0 5 3)
— solid	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
at AWG conductors for main contacts	2x (20 16), 2x (18 14), 2x 12
Type of connectable conductor cross-sections	
• for auxiliary contacts	

- solid

- single or multi-stranded

- finely stranded with core end processing

• at AWG conductors for auxiliary contacts

AWG number as coded connectable conductor cross section for main contacts

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

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

2x (20 ... 16), 2x (18 ... 14), 2x 12

20 ... 12

Safety related data

Product function	
 Mirror contact acc. to IEC 60947-4-1 	Yes; with 3RH29
positively driven operation acc. to IEC 60947-5-	No
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Protection against electrical shock	finger-safe

Certificates/approvals

General Product Approval

Functional Safety/Safety of Machinery

Declaration of Conformity







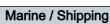


Type Examination Certificate



Test Certificates

Type Test Certificates/Test Report













Marine / Shipping

other





Confirmation



Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2518-1BG40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2518-1BG40

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

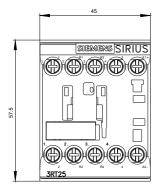
https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1BG40

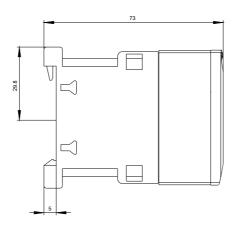
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2518-1BG40&lang=en

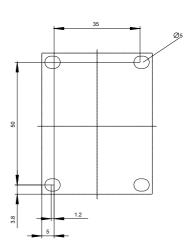
Characteristic: Tripping characteristics, I2t, Let-through current

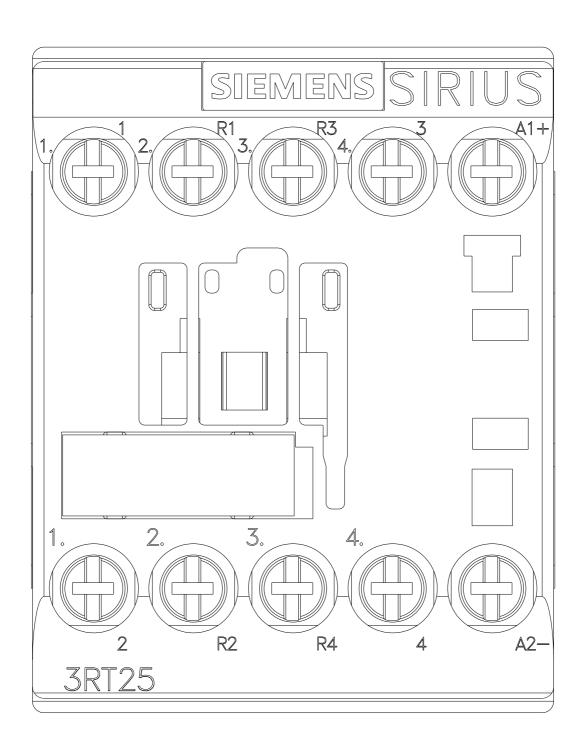
https://support.industry.siemens.com/cs/ww/en/ps/3RT2518-1BG40/char

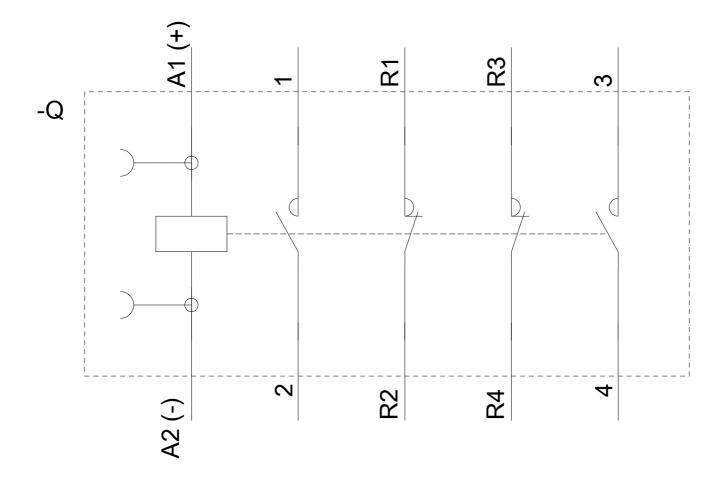
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2518-1BG40&objecttype=14&gridview=view1











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