SIEMENS

Data sheet 3RT2517-2GG20



Contactor, 2NO + 2NC, AC-3, 5.5 kW, 110 V AC, 50 / 60 Hz, 4-pole, 2NO + 2NC, Size S00, Spring-type terminal Full-wave rectifier integrated

product brand name	SIRIUS
product designation	contactor
product type designation	3RT25
General technical data	
size of contactor	S00
product extension	
 function module for communication 	No
auxiliary switch	Yes
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of auxiliary circuit with degree of pollution 3 rated value 	690 V
surge voltage resistance	
of main circuit rated value	6 kV
of auxiliary circuit rated value	6 kV
maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	7,3g / 5 ms, 4,7g / 10 ms
shock resistance with sine pulse	
• at AC	11,4g / 5 ms, 7,3g / 10 ms
mechanical service life (switching cycles)	
 of contactor typical 	30 000 000
 of the contactor with added electronically optimized auxiliary switch block typical 	5 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
relative humidity minimum	10 %
relative humidity at 55 °C according to IEC 60068-2-30 maximum	95 %
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	2

operational current • at AC-1 up to 69 0 V — at ambient temperature 40 °C rated value — at ambient temperature 60 °C rated value — at ambient temperature 60 °C rated value — per NC contact rated value — at 24 °C rated value — at 27 °C rated value — at 28 °C rated value — at 28 °C rated value — at 29 °C rated value — at 29 °C rated value — at 29 °C rated value — at 20	number of NC contacts for main contacts	2
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- at 24 V per NO contact rated value - at 110 V per NC 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 • 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 100 V per NC contact rated value • at 400 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V per NC contact rated value • at 100 V 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 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 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero current maximum • limited to 60 switching at zero	 with 2 current paths in series at DC-3 at DC-5 	
- at 110 V per NC contact rated value - at 110 V per NO contact rated value 0.35 A 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 • in the total of the control supply voltage • imited to 1 s switching at zero current maximum • limited to 10 s switching at zero current maximum • limited to 30 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 160 s switching at zero	 — at 24 V per NC contact rated value 	20 A
- at 110 V per NO contact rated value 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 NO contact rated value • at 400 V per NO contact rated value • at 400 V per NO contact rated value **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 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 • 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 • limited to 60 s switching at zero current maximum • limited to 60 s switching at 2ero current maximum • limited to 60 s switching at 2ero current maximum • limited to 60 s switching at 2ero current maximum • limited to 60 s switching at 2ero current maximum • limited to 60 s switching at 2ero current maximum • limited to 60 s switching at 2ero current maximum • limited to 60 s switching at 2ero current maximum • lim	 — at 24 V per NO contact rated value 	20 A
operating power at AC-2 at AC-3 • 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 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 30 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 • 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 2ero 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 • limited to 60 s switching at ze	 — at 110 V per NC contact rated value 	0.175 A
at 230 V per NC contact rated value at 230 V per NO contact rated value at 400 V per NO contact rated value at 400 V per NO contact rated value 5.5 kW short-time withstand current in cold operating state up to 40 °C ilmited to 1 s switching at zero current maximum ilmited to 5 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 30 s switching at zero current maximum ilmited to 60 s switching at	 — at 110 V per NO contact rated value 	0.35 A
at 230 V per NO contact rated value at 400 V per NC contact rated value at 400 V per NO contact rated value at 400 V per NO contact rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum ilimited to 5 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 30 s switching at zero current maximum ilimited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC at DC operating frequency at AC-1 maximum 1000 1/h ontrol circuit/ Control type of voltage of the control supply voltage at 60 Hz rated value at 50 Hz rated value at 50 Hz substituting at zero current maximum 1000 substituting cross-section acc. to AC-1 rated value 110 substituting at zero current maximum 125 A; Use minimum cross-section acc. to AC-1 rated value 126 A; Use minimum cross-section acc. to AC-1 rated value 112 substituting at zero current maximum 128 A; Use minimum cross-section acc. to AC-1 rated value 110 substituting at zero current maximum 129 A; Use minimum cross-section acc. to AC-1 rated value 110 substituting at zero current maximum 129 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 rated value 120 A; Use minimum cross-section acc. to AC-1 ra	operating power at AC-2 at AC-3	
at 400 V per NC contact rated value at 400 V per NC contact rated value short-time withstand current in cold operating state up to 40 °C ilimited to 1 s switching at zero current maximum limited to 5 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum limited	 at 230 V per NC contact rated value 	2.2 kW
• at 400 V per NO contact rated value 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 30 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 power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC operating frequency • at AC-1 maximum 1000 1/h ontrol circuit/ Control type of voltage of the control supply voltage at 60 Hz rated value • at 60 Hz rated value • at 50 Hz	 at 230 V per NO contact rated value 	3 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 30 s switching at zero current maximum • limited to 60 s switching at zero current maximum • limited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC • at AC-1 maximum 10 000 1/h 10 000 1/h 10 000 1/h ontrol circuit/ Control type of voltage of the control supply voltage at 60 Hz rated value • at 60 Hz rated value • at 50 Hz 10 0.8 1.1	 at 400 V per NC contact rated value 	4 kW
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 30 s switching at zero current maximum • limited to 30 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 power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency • at AC • at DC 10 000 1/h operating frequency • at AC-1 maximum 1 000 1/h ontrol circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value • at 50 Hz 0.8 1.1	 at 400 V per NO contact rated value 	5.5 kW
 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 30 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 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 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 swi	short-time withstand current in cold operating state	
 limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum limited to 30 s switching at zero current maximum limited to 30 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 power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC operating frequency at AC-1 maximum 10 000 1/h ontrol circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value at 50 Hz at 50 Hz at 50 Hz 	•	125 A: Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum limited to 30 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 61 A; Use minimum cross-section acc. to AC-1 rated value 1.2 W at AC-1 rated value at AC at AC at AC-1 rated value at AC at AC at AC-1 rated value at AC at AC-1 rated value at AC-	_	
Ilimited to 30 s switching at zero current maximum Ilimited to 60 s switching at 40 old AC on 1 zero section acc. to AC-1 rated value Ilimited to 60 s switching at 20 old AC on 10 old AC	G	
Ilmited to 60 s switching at zero current maximum power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency at AC at DC operating frequency at AC-1 maximum 1 000 1/h ontrol circuit/ Control type of voltage of the control supply voltage at 50 Hz rated value at 50 Hz at 50 Hz at 50 Hz	_	
power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor no-load switching frequency	_	
operational current per conductor no-load switching frequency • at AC • at DC 10 000 1/h operating frequency • at AC-1 maximum 1 000 1/h ontrol circuit/ Control type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value • at 50 Hz • at 50 Hz 0.8 1.1	-	·
 at AC at DC 10 000 1/h 10 000 1/h operating frequency at AC-1 maximum 1 000 1/h ontrol circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 50 Hz 0.8 1.1 	operational current per conductor	
 at DC operating frequency at AC-1 maximum 1 000 1/h Ontrol circuit/ Control type of voltage of the control supply voltage AC control supply voltage at AC at 50 Hz rated value at 60 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 50 Hz 	no-load switching frequency	
operating frequency	• at AC	10 000 1/h
 at AC-1 maximum type of voltage of the control supply voltage at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 50 Hz 	• at DC	10 000 1/h
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 50 Hz 0.8 1.1	operating frequency	
type of voltage of the control supply voltage control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 50 Hz 0.8 1.1	at AC-1 maximum	1 000 1/h
control supply voltage at AC • at 50 Hz rated value • at 60 Hz rated value 110 V operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 50 Hz 0.8 1.1	Control circuit/ Control	
 at 50 Hz rated value at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz 0.8 1.1 	type of voltage of the control supply voltage	AC
• at 60 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz 110 V 0.8 1.1	control supply voltage at AC	
operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz 0.8 1.1	at 50 Hz rated value	110 V
value of magnet coil at AC ● at 50 Hz 0.8 1.1	at 60 Hz rated value	110 V
	operating range factor control supply voltage rated value of magnet coil at AC	
• at 60 Hz 0.85 1.1	● at 50 Hz	
	● at 60 Hz	0.85 1.1

apparent pick-up power of magnet coil at AC	37 VA
● at 50 Hz	37 VA
• at 60 Hz	33 VA
inductive power factor with closing power of the coil	0.8
● at 50 Hz	0.8
● at 60 Hz	0.75
apparent holding power of magnet coil at AC	5.7 VA
● at 50 Hz	5.7 VA
● at 60 Hz	4.4 VA
inductive power factor with the holding power of the coil	0.25
● at 50 Hz	0.25
● at 60 Hz	0.25
closing delay	
• at AC	30 100 ms
opening delay	
• at AC	38 65 ms
arcing time	10 15 ms
residual current of the electronics for control with signal <0>	
at AC at 230 V maximum permissible	0.004 A
Auxiliary circuit	
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 	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 230 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 	
 — with type of coordination 1 required 	gG: 35 A (690 V, 100 kA)
 — with type of assignment 2 required 	gG: 20A (690V, 100kA)
 for short-circuit protection of the auxiliary switch required 	fuse gG: 10 A
Installation/ mounting/ dimensions	
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 standard mounting rail

	according to DIN EN 50022
• side-by-side mounting	Yes
height	70 mm
width	45 mm
depth	73 mm
required spacing	
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— dpwards	0 mm
— at the side	0 mm
	O IIIIII
• for grounded parts	0
— 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	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	opining type terminate
• for main contacts	
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 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)
	2x (0.5 2.5 mm²)
at AWG cables for main contacts	2x (20 12)
type of connectable conductor cross-sections	
for auxiliary contacts	Ov. (0.5
— solid	2x (0.5 4 mm²)
— solid or stranded	2x (0,5 4 mm²)
 finely stranded with core end processing 	2x (0.5 2.5 mm²)
 finely stranded without core end processing 	2x (0.5 2.5 mm²)
at AWG cables for auxiliary contacts	2x (20 12)
AWG number as coded connectable conductor cross section for main contacts	20 12
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
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Certificates/ approvals	
General Product Approval	EMC



Confirmation









Functional
Safety/Safety of
Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate UK Declaration of Conformity



Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping













other

Dangerous Good

Confirmation



<u>Transport Information</u>

Further information

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=3RT2517-2GG20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2517-2GG20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2GG20

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

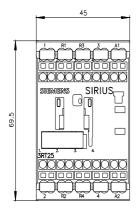
 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2517-2GG20\&lang=en}$

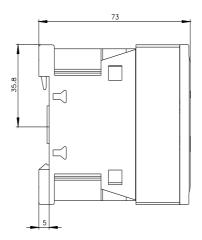
Characteristic: Tripping characteristics, I²t, Let-through current

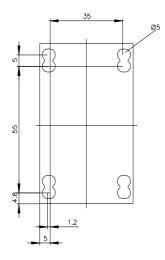
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2GG20/char

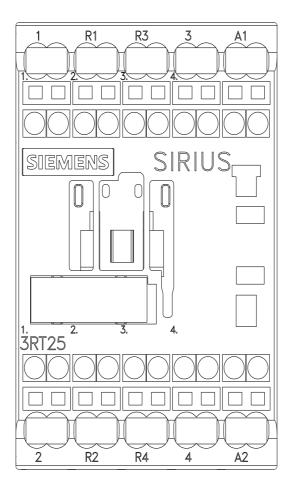
Further characteristics (e.g. electrical endurance, switching frequency)

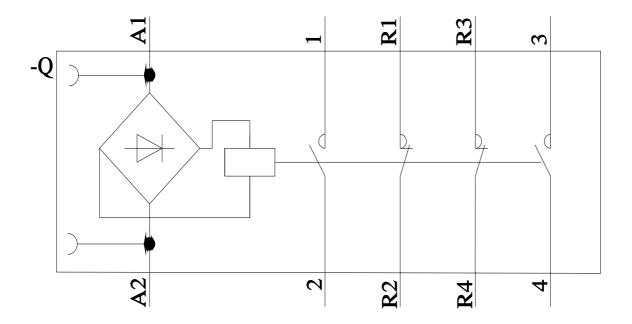
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2GG20&objecttype=14&gridview=view1











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