SIEMENS

Data sheet 3RT2327-2BB40



contactor AC-1, 50 A, 400 V / 40 °C, 4-pole, 24 V DC, auxiliary contacts: 1 NO + 1 NC, spring-loaded terminal

product brand name	SIRIUS
product designation	Contactor
product type designation	3RT23
General technical data	
size of contactor	S0
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 	12 W
 at AC in hot operating state per pole 	3 W
 without load current share typical 	5.9 W
insulation voltage	
 of main circuit with degree of pollution 3 rated value 	690 V
 of the auxiliary and control 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
shock resistance at rectangular impulse	
• at DC	10g / 5 ms, 7,5g / 10 ms
shock resistance with sine pulse	
• at DC	15g / 5 ms, 10g / 10 ms
mechanical service life (operating cycles)	
 of contactor typical 	10 000 000
 of the contactor with added auxiliary switch block typical 	10 000 000
reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	10/01/2009
Ambient conditions	
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	95 %
maximum	
Main circuit	
number of poles for main current circuit	4
number of NO contacts for main contacts	4
operational current	
 at AC-1 at 400 V at ambient temperature 40 °C 	50 A

rated value	
• at AC-1	
 up to 690 V at ambient temperature 40 °C rated value 	50 A
 up to 690 V at ambient temperature 60 °C rated value 	42 A
• at AC-3	
— at 400 V rated value	15.5 A
 at AC-4 at 400 V rated value 	15.5 A
minimum cross-section in main circuit at maximum AC-1 rated value	10 mm ²
operating power	
at AC-3 at 400 V rated valueat AC-4 at 400 V rated value	7.5 kW 7.5 kW
short-time withstand current in cold operating state up to 40 °C	
 limited to 1 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 5 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 10 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 30 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
 limited to 60 s switching at zero current maximum 	Use minimum cross-section acc. to AC-1 rated value
no-load switching frequency	
• at DC	1 500 1/h
operating frequency at AC-1 maximum	1 000 1/h
Control circuit/ Control	
type of voltage	DC
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 	1.1
closing power of magnet coil at DC	5.9 W
closing power of magnet coil at DC holding power of magnet coil at DC	5.9 W 5.9 W
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC	
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay	5.9 W 50 170 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at DC opening delay • at DC arcing time	5.9 W 50 170 ms 15 18 ms 10 10 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
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closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A 10 A 3 A 2 A 1 A
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 0 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2
closing power of magnet coil at DC holding power of magnet coil at DC closing delay	5.9 W 50 170 ms 15 18 ms 10 10 ms Standard A1 - A2 1 2 1 1 2 1 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 3 A 2 A 1 A

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e at 125 V rated value e at 220 V rated value 0.3 A 0.1 A 0.1 A (230 V, 400 A) protection of the auxiliary switch required contact reliability of auxiliary contacts Contact rating of auxiliary contacts according to UL CSA ratios Contact rating of auxiliary contacts according to UL CSA ratios Contact rating of auxiliary contacts according to UL CSA ratios Contact rating of auxiliary contacts according to UL CSA ratios Contact rating of auxiliary contacts according to UL CSA ratios Contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required * side-by-side mounting dimensions * with side-by-side mounting • for side-by-side mounting • for lowards • downwards • downwards • for grounded parts • for lowards • for low	• at 48 V rated value	2 A
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design of the miniature circuit breaker for short-circuit protection of the auxiliary valuth required contact reliability of auxiliary contacts according to UL. Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the auxiliary with per of coordination 1 required — with type of costing and auxiliary switch required — with type of assignment 2 required — with type of something of the auxiliary switch required for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required — with type of content and the state of the auxiliary switch required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • with type of assignment 2 required • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • for wards • for invards • for inv		
Contact rating of auxiliary contacts 1 faulty switching per 100 million (17 V, 1 mA) UL/CSA ratings Contact rating of auxiliary contacts according to UL A600 / O600 Short-circuit protection design of the fuse link No - with type of coordination 1 required Social A (690 V, 100 kA) — with type of assignment 2 required gG: 20 A (690 V, 100 kA) — for short-circuit protection of the auxiliary switch required gG: 10 A (690 V, 100 kA) Forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/ 22.5° on vertical mounting surface; can be tilted forward and backward by +/	design of the miniature circuit breaker for short-circuit	
contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of cosidnation 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required * for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required spacing • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • for grounded parts — forwards — at the side — downwards — upwards — ownwards — ownwar	contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Short-circuit protection Product function short circuit protection design of the fuse link	UL/CSA ratings	
product function 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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required * for switch specified of the auxiliary switch required * for switch specified or specified of the success of the specified of the success of the specified of the specified or specified	contact rating of auxiliary contacts according to UL	A600 / Q600
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 • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch gis 20 A (690 V, 100 kA) gis 20 A (690 V, 100 k	Short-circuit protection	
• for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required position - fastening method • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • forwards — downwards — downwards — at the side — downwards • for grounded parts — forwards — at the side — downwards • for live parts — forwards — ownwards • for live parts — forwards — ownwards — at the side — downwards — ownwards — ownwards	product function short circuit protection	No
with type of coordination 1 required with type of assignment 2 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting with depth required spacing with side-by-side mounting forwards upwards at the side downwards at the side forwards		
- with type of assignment 2 required • for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions Mounting position	·	
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method • side-by-side mounting • with side-by-side mounting • for grounded parts — forwards — at the side — downwards — at the side — downwards — at the side — downwards — to for live parts — forwards — upwards — downwards — the side — downwards — 10 mm • for Ilve parts — forwards — the side — downwards — the side — downwards — the side — downwards — 10 mm • for live parts — forwards — the side — downwards — the side — downwards — the side — downwards — the side — for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts • of magnet coil type of connectable conductor cross-sections for main contacts • of magnet coil type of connectable conductor cross-sections for main contacts • of magnet coil type of connectable conductor cross-sections for main contacts • of magnet coil type of connectable conductor cross-sections for main contacts • of magnet coil type of connectable conductor cross-sections for main contacts		
Installation/ mounting/ dimensions mounting position		
mounting position		gG: 10 A (690 V, 1 kA)
mounting position +/-180* rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5* on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting • side-by-side mounting width depth 102 mm 60 mm 107 mm required spacing • with side-by-side mounting — forwards — upwards — downwards — downwards — at the side — oo mm • for grounded parts — for wards — at the side — downwards — to mm • for live parts — forwards — upwards — to mm • for live parts — forwards — downwards — at the side — downwards — at the side — for main current circuit • for auxiliary and control circuit • for maxiliary and control circuit • for auxiliary and control circuit • spring-loaded terminals • spring-loaded terminals • spring-loaded terminals • spring-loaded terminals • Spring-type terminals Spring-type terminals Spring-type terminals Spring-type terminals Spring-type terminals	·	
forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting height width 60 mm depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — upwards — at the side • for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — at the side • for mm — upwards — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — at the side — for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts spring-lype terminals type of encetable conductor cross-sections for main contacts spring-lype terminals		+/-180° rotation possible on vertical mounting surface; can be tilted
side-by-side mounting height		forward and backward by +/- 22.5° on vertical mounting surface
height width depth frequired spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — forwards — upwards — upwards — 10 mm • for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — upwards — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — upwards — the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — the side — downwards — the side — downwards — to mm Connections/ Terminals type of electrical connection • for magnet coil • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts Spring-type terminals Spring-type terminals Spring-type terminals	fastening method	
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depth required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — 10 mm — upwards — 10 mm • for wards — 10 mm • for main current circuit • for auxiliary and control circuit • of connectable conductor cross-sections for main contacts • with side-by-side mounting 10 mm 1	_	
required spacing • with side-by-side mounting — forwards — upwards — downwards — at the side — o mm • for grounded parts — forwards — upwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — 10 mm — at the side — downwards — 10 mm • for live parts — forwards — upwards — upwards — to mm • for wards — upwards — to mm • for main current circuit — for main current circuit — for magnet coil • of magnet coil • of connectable conductor cross-sections for main contacts • with side-by-side mounting 10 mm 10 mm 10 mm 10 mm 5 mm 5 mm 6 mm Connections/ Terminals • for auxiliary and control circuit • of magnet coil • of magnet coil • Spring-type terminals • Spring-type terminals	width	60 mm
with side-by-side mounting — forwards — upwards — upwards — downwards — at the side • for grounded parts — forwards — upwards — ownwards — upwards — upwards — upwards — at the side — downwards — at the side — downwards — for live parts — forwards — upwards — upwards — upwards — upwards — upwards — at the side — downwards — upwards — upwards — upwards — downwards — at the side — for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts Spring-type terminals	•	107 mm
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- at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - forwards - forwards - forwards - forwards - forwards - to mm - upwards - upwards - upwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts		
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- at the side - downwards • for live parts - forwards - upwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts 6 mm 6 mm Connections/ Terminals 5 pring-loaded terminals 5 pring-loaded terminals 5 Spring-type terminals 5 Spring-type terminals		
- downwards • for live parts - forwards - upwards - downwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts 10 mm 10 mm 6 mm Connections/ Terminals 5 mm Spring-loaded terminals 5 spring-loaded terminals 5 spring-type terminals 5 spring-type terminals		
 for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections for main contacts 		
- forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts		
- downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts	•	10 mm
- at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts	— upwards	10 mm
type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts	— downwards	10 mm
type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts	— at the side	6 mm
 for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts spring-loaded terminals Spring-type terminals Spring-type terminals	Connections/ Terminals	
 for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts spring-loaded terminals Spring-type terminals Spring-type terminals	type of electrical connection	
 at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts Spring-type terminals Spring-type terminals 		
• of magnet coil type of connectable conductor cross-sections for main contacts Spring-type terminals	•	
type of connectable conductor cross-sections for main contacts	-	
contacts	_	Spring-type terminals
● solid 2x (1 10 mm²)	contacts	
		2x (1 10 mm²)
• solid or stranded 2x (1 10 mm²)		
• finely stranded with core end processing 2x (1 6 mm²)		
• finely stranded without core end processing 2x (1 6 mm²)	-	2x (1 6 mm²)
connectable conductor cross-section for main contacts		
• solid 1 10 mm ²		1 10 mm²
• solid or stranded 1 10 mm²		
• stranded 1 10 mm ²		
• finely stranded with core end processing 1 6 mm ²		
• finely stranded without core end processing 1 6 mm²		
connectable conductor cross-section for auxiliary	-	
contacts	contacts	

0.5 ... 2.5 mm² solid or stranded • finely stranded with core end processing 0.5 ... 1.5 mm² • finely stranded without core end processing 0.5 ... 2.5 mm² type of connectable conductor cross-sections • for auxiliary contacts - solid 2x (0.5 ... 2.5 mm²) - solid or stranded 2x (0.5 ... 2.5 mm²) — finely stranded with core end processing 2x (0.5 ... 1.5 mm²) - finely stranded without core end processing 2x (0.5 ... 2.5 mm²) • at AWG cables for auxiliary contacts 2x (20 ... 14) AWG number as coded connectable conductor cross section · for main contacts 18 ... 8 • for auxiliary contacts 20 ... 14 Safety related data product function

• mirror contact according to IEC 60947-4-1 Yes T1 value for proof test interval or service life according to 20 a IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protocol product function bus communication No

Certificates/ approvals **General Product Approval**

EMC





Confirmation







Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>



Marine / Shipping













other

Railway

Dangerous Good

Confirmation



Vibration and Shock

Transport Information

Further information

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=3RT2327-2BB40

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2327-2BB40

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2BB40

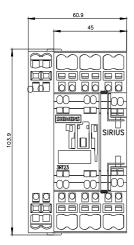
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2327-2BB40&lang=en

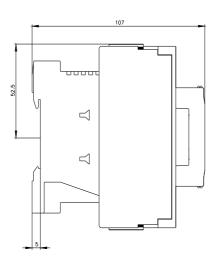
Characteristic: Tripping characteristics, I2t, Let-through current

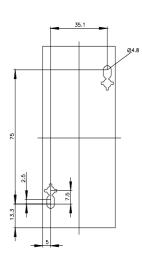
https://support.industry.siemens.com/cs/ww/en/ps/3RT2327-2BB40/char

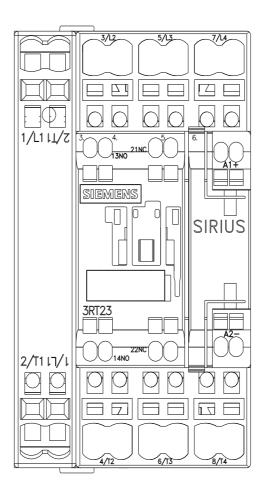
Further characteristics (e.g. electrical endurance, switching frequency)

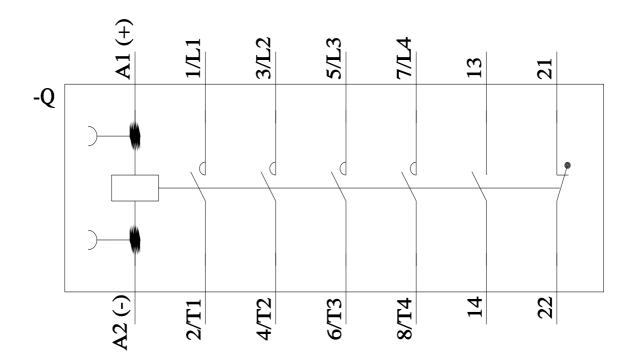
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2327-2BB40&objecttype=14&gridview=view1











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