SIEMENS

Data sheet 3RT1265-6AP36



vacuum contactor AC-3e/AC-3 265 A, 132 kW / 400 V, 3-pole, Uc: 220-240 V AC(50-60 Hz) / DC drive: conventional auxiliary contacts 2 NO + 2 NC main circuit: busbar control and auxiliary circuit: screw terminal

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Vacuum contactor |
| product type designation | 3RT12 |
| General technical data | |
| size of contactor | S10 |
| 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 | 36 W |
| at AC in hot operating state per pole | 12 W |
| without load current share typical | 8.2 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 1 000 V |
| of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| surge voltage resistance | |
| of main circuit rated value | 8 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 690 V |
| shock resistance at rectangular impulse | |
| • at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| • at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| • at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 10 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 05/01/2012 |
| 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 % |

| number of Poles for main current circuit 3 number of NO contacts for main contacts 3 operating voltage 1000 V • at AC-3 rated value maximum 1000 V • at AC-3 rated value maximum 1000 V operational current 330 A • at AC-1 at 400 V at ambient temperature 40 °C rated value 330 A • up to 690 V at ambient temperature 40 °C rated value 300 A — up to 1000 V at ambient temperature 40 °C rated value 300 A — up to 1000 V at ambient temperature 60 °C rated value 300 A — up to 1000 V at ambient temperature 60 °C rated value 300 A — at 400 V rated value 265 A — at 500 V rated value 265 A — at 690 V rated value 265 A — at 400 V rated value 265 A — at 500 V rated value 265 A — at 500 V rated value 265 A — at 500 V rated value 265 A — at 1000 | |
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| — up to 500 V for current peak value n=20 rated value 265 A | |
| — up to 690 V for current peak value n=20 rated value 265 A | |
| up to 1000 V for current peak value n=20 rated value at AC-6a | |
| — up to 230 V for current peak value n=30 rated value | |
| — up to 400 V for current peak value n=30 rated value 209 A | |
| — up to 500 V for current peak value n=30 rated value 209 A | |
| — up to 690 V for current peak value n=30 rated value 209 A | |
| — up to 1000 V for current peak value n=30 rated value 209 A | |
| minimum cross-section in main circuit at maximum AC-1 rated value 185 mm ² | |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value 115 A | |
| • at 690 V rated value 115 A | |
| operating power • at AC-3 | |
| — at 230 V rated value 75 kW | |
| — at 400 V rated value 132 kW | |
| — at 500 V rated value 160 kW | |
| — at 690 V rated value 250 kW | |
| — at 1000 V rated value■ at AC-3e | |
| — at 230 V rated value 75 kW | |
| — at 400 V rated value 132 kW | |

| — at 500 V rated value | 160 kW |
|---|---|
| — at 690 V rated value | 250 kW |
| — at 1000 V rated value | 355 kW |
| operating power for approx. 200000 operating cycles | |
| at AC-4 | |
| at 400 V rated value | 65 kW |
| at 690 V rated value | 112 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 100 000 kVA |
| up to 400 V for current peak value n=20 rated value | 180 000 VA |
| up to 500 V for current peak value n=20 rated value | 220 000 VA |
| up to 690 V for current peak value n=20 rated value | 310 000 VA |
| • up to 1000 V for current peak value n=20 rated | 450 000 VA |
| value | 100 000 77 |
| operating apparent power at AC-6a | |
| • up to 230 V for current peak value n=30 rated value | 80 000 VA |
| • up to 400 V for current peak value n=30 rated value | 140 000 VA |
| up to 500 V for current peak value n=30 rated value | 180 000 VA |
| up to 690 V for current peak value n=30 rated value | 250 000 VA |
| | |
| up to 1000 V for current peak value n=30 rated value | 360 000 VA |
| no-load switching frequency | |
| at AC | 2 000 1/h |
| | |
| • at DC | 2 000 1/h |
| operating frequency | 750.4% |
| • at AC-1 maximum | 750 1/h |
| at AC-2 maximum | 250 1/h |
| at AC-3 maximum | 750 1/h |
| at AC-3e maximum | 750 1/h |
| at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| | |
| control supply voltage at AC | |
| control supply voltage at AC ■ at 50 Hz rated value | 220 240 V |
| | 220 240 V 220 240 V |
| at 50 Hz rated value | |
| at 50 Hz rated valueat 60 Hz rated value | |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value | 220 240 V |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC | 220 240 V |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated | 220 240 V |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value operating range factor control supply voltage rated value of magnet coil at DC | 220 240 V 220 240 V |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated | 220 240 V 220 240 V 0.8 |
| at 50 Hz rated value at 60 Hz rated value 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 | 220 240 V 220 240 V 0.8 |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated | 220 240 V 220 240 V 0.8 |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC | 220 240 V 220 240 V 0.8 1.1 |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz | 220 240 V 220 240 V 0.8 1.1 |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA |
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| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA |
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| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA |
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| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power of magnet coil at DC holding power of magnet coil at DC | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W 8.2 W |
| at 50 Hz rated value at 60 Hz rated value 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 operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W 8.2 W 30 95 ms |
| at 50 Hz rated value at 60 Hz rated value control supply voltage at DC rated value perating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay | 220 240 V 220 240 V 0.8 1.1 0.8 1.1 0.8 1.1 with varistor 590 VA 590 VA 0.9 0.9 6.1 VA 6.1 VA 0.9 0.9 700 W 8.2 W |

| | 40 00 |
|---|--|
| • at AC | 40 80 ms |
| at DC arcing time | 40 80 ms 10 15 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | Charles III / IL |
| number of NC contacts for auxiliary contacts | 2 |
| instantaneous contact | |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| at 230 V rated value | 6 A |
| at 400 V rated value | 3 A |
| at 500 V rated value at 600 V rated value | 2 A 1 A |
| • at 690 V rated value | I A |
| operational current at DC-12 • at 24 V rated value | 10 A |
| at 48 V rated value at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| at 10 V rated value at 110 V rated value | 3 A |
| at 110 V rated value 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 125 V rated value | 0.9 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 | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 240 A |
| at 600 V rated value | 242 A |
| yielded mechanical performance [hp] | |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 75 hp |
| — at 220/230 V rated value | 100 hp |
| — at 460/480 V rated value | 200 hp |
| — at 575/600 V rated value | 250 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. | aC: 500 A (600 V 100 kA) |
| — with type of coordination 1 required— with type of assignment 2 required | gG: 500 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 450 A (415 |
| — with type of assignment 2 required | gg: 500 A (690 V, 100 kA), am: 400 A (690 V, 50 kA), B588: 450 A (415 V, 50 kA) |
| for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | +/-22,5° rotation possible on vertical mounting surface; can be tilted |
| | forward and backward by +/- 22.5° on vertical mounting surface; standing, on horizontal mounting surface |
| | 0 |
| fastening method | screw fixing |
| fastening method • side-by-side mounting | |
| side-by-side mountingheight | screw fixing |
| side-by-side mounting | screw fixing Yes 210 mm 145 mm |
| side-by-side mountingheightwidthdepth | screw fixing Yes 210 mm |
| side-by-side mounting height width depth required spacing | screw fixing Yes 210 mm 145 mm |
| side-by-side mounting height width depth required spacing with side-by-side mounting | screw fixing Yes 210 mm 145 mm 206 mm |
| side-by-side mounting height width depth required spacing | screw fixing Yes 210 mm 145 mm |

| — downwards | 10 mm |
|--------------------|-------|
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| for live parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| | |

type of electrical connection

- for main current circuit • for auxiliary and control circuit
- at contactor for auxiliary contacts
- of magnet coil

width of connection bar

thickness of connection bar diameter of holes

number of holes

connectable conductor cross-section for main

contacts

stranded connectable conductor cross-section for auxiliary

contacts

- · solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- for auxiliary contacts
 - solid
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

Safety related data

Connection bar

screw-type terminals

Screw-type terminals

Screw-type terminals

25 mm

6 mm

11 mm

1

70 ... 240 mm²

0.5 ... 4 mm²

0.5 ... 2.5 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

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

2x (20 ... 16), 2x (18 ... 14), 1x 12

• for auxiliary contacts 18 ... 14

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

product function

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

• safety-related switching OFF

Yes

No 20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval



Confirmation





KC





Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

Marine / Shipping

other











Confirmation

other Railway

<u>Miscellaneous</u> <u>Confirmation</u> <u>Vibration and Shock</u> <u>Special Test Certific-</u>

<u>ate</u>

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=3RT1265-6AP36

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT1265-6AP36}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36

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

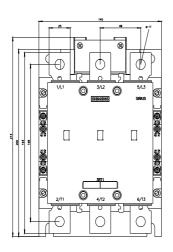
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AP36&lang=en

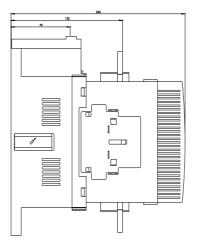
Characteristic: Tripping characteristics, I2t, Let-through current

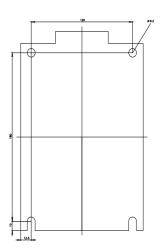
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36/char

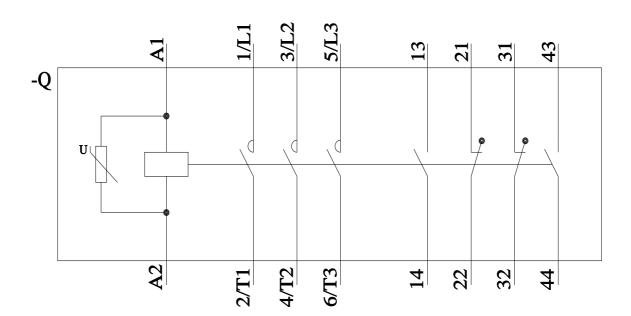
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1265-6AP36&objecttype=14&gridview=view1









last modified: 11/12/2022 ☑