SIEMENS

Data sheet 3RT1265-6AP36



Vacuum contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 220-240 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional

| 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 | |
| • per pole | 12 W | |
| power loss [W] for rated value of the current without load current share typical | 8.2 W | |
| 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 acc. 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 (switching 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 acc. to IEC 81346-2 | Q | |
| Substance Prohibitance (Date) | 01.05.2012 00:00:00 | |
| 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 acc. to IEC 60068-2-30 | 95 % | |

| maximum | |
|--|----------|
| Aain circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage at AC-3 rated value maximum | 1 000 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C | 330 A |
| rated value | 000 A |
| ● at AC-1 | |
| — up to 690 V at ambient temperature 40 °C | 330 A |
| rated value | |
| — up to 690 V at ambient temperature 60 °C | 300 A |
| rated value | |
| — up to 1000 V at ambient temperature 40 °C | 330 A |
| rated value | 200 4 |
| — up to 1000 V at ambient temperature 60 °C rated value | 300 A |
| • at AC-3 | |
| — at 400 V rated value | 265 A |
| — at 400 V rated value — at 500 V rated value | 265 A |
| | 265 A |
| — at 690 V rated value | |
| — at 1000 V rated value● at AC-4 at 400 V rated value | 265 A |
| | 230 A |
| • at AC-6a | 205.4 |
| up to 230 V for current peak value n=20 rated value | 265 A |
| | 265 A |
| up to 400 V for current peak value n=20 rated value | 200 A |
| — up to 500 V for current peak value n=20 rated | 265 A |
| value | 20071 |
| — up to 690 V for current peak value n=20 rated | 265 A |
| value | |
| — up to 1000 V for current peak value n=20 rated | 265 A |
| value | |
| • at AC-6a | |
| — up to 230 V for current peak value n=30 rated | 209 A |
| value | 000 A |
| 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 | 209 A |
| value | 200 |
| — up to 690 V for current peak value n=30 rated | 209 A |
| value | |
| — up to 1000 V for current peak value n=30 rated | 209 A |
| value | |
| minimum cross-section in main circuit at maximum AC-1 | 185 mm² |
| rated value | |
| operational current for approx. 200000 operating cycles at AC-4 | |
| • at 400 V rated value | 115 A |
| at 400 V rated value at 690 V rated value | 115 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 75 kW |
| — at 200 V rated value — at 400 V rated value | 132 kW |
| — at 400 V rated value — at 500 V rated value | 160 kW |
| | 250 kW |
| — at 690 V rated value | |
| — 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 400 V rated value at 690 V rated value | 112 kW |
| operating apparent power at AC-6a | I IZ NVV |

| • up to 230 V for current peak value n=20 rated value | 100 000 kV·A |
|---|---|
| up to 400 V for current peak value n=20 rated value | 180 000 V·A |
| up to 500 V for current peak value n=20 rated value | 220 000 V·A |
| • up to 690 V for current peak value n=20 rated value | 310 000 V·A |
| • up to 1000 V for current peak value n=20 rated | 450 000 V·A |
| value | 400 000 V / (|
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 80 000 V·A |
| up to 400 V for current peak value n=30 rated value | 140 000 V·A |
| • up to 500 V for current peak value n=30 rated value | 180 000 V·A |
| • up to 690 V for current peak value n=30 rated value | 250 000 V·A |
| • up to 1000 V for current peak value n=30 rated | 360 000 V·A |
| value | 000 000 V /1 |
| no-load switching frequency | |
| • at AC | 2 000 1/h |
| • at DC | 2 000 1/h |
| operating frequency | |
| • at AC-1 maximum | 750 1/h |
| • at AC-2 maximum | 250 1/h |
| • at AC-3 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 | NOIDO |
| at 50 Hz rated value | 220 240 V |
| at 60 Hz rated value | 220 240 V |
| control supply voltage at DC | 220 240 V |
| • rated value | 220 240 V |
| operating range factor control supply voltage rated | 220 2 10 V |
| value of magnet coil at DC | |
| • initial value | 0.8 |
| • full-scale value | 1.1 |
| operating range factor control supply voltage rated | |
| value of magnet coil at AC | |
| ● at 50 Hz | 0.8 1.1 |
| ● at 60 Hz | 0.8 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | |
| apparent pick-up power of magnet con at AC | |
| • at 50 Hz | 590 V·A |
| | 590 V·A 590 V·A |
| • at 50 Hz | |
| at 50 Hz at 60 Hz | |
| at 50 Hz at 60 Hz inductive power factor with closing power of the coil | 590 V·A |
| at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz | 590 V·A 0.9 |
| at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz | 590 V·A 0.9 |
| 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 | 590 V·A 0.9 0.9 |
| 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 | 590 V·A 0.9 0.9 6.1 V·A |
| 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 | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A |
| 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 | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A |
| 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 | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 |
| 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 closing power of magnet coil at DC | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 0.9 |
| 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 coil at 50 Hz at 60 Hz holding power of magnet coil at DC holding power of magnet coil at DC | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 |
| 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 coil at 50 Hz at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 700 W 8.2 W |
| 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 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 700 W 8.2 W 30 95 ms |
| 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 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 700 W 8.2 W |
| 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 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 700 W 8.2 W 30 95 ms 30 95 ms |
| 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 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at AC | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 700 W 8.2 W 30 95 ms 30 95 ms 40 80 ms |
| 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 closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay | 590 V·A 0.9 0.9 6.1 V·A 6.1 V·A 0.9 0.9 700 W 8.2 W 30 95 ms 30 95 ms |

| control version of the switch operating mechanism | Standard A1 - A2 |
|---|---|
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous contact | 2 |
| 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 | 2 A |
| at 690 V rated value | 1 A |
| operational current at DC-12 | |
| at 24 V rated value | 10 A |
| 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 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 | gG: 500 A (690 V, 100 kA) |
| — with type of assignment 2 required | gG: 500 A (690 V, 100 kA), aM: 400 A (690 V, 50 kA), BS88: 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 |
| fastening method | screw fixing |
| side-by-side mounting | Yes |
| • side-by-side modifiing | |
| height | 210 mm |
| | 210 mm 145 mm |
| height | |
| height width | 145 mm |

| General Product Approval | | EMC | |
|--|---|-------------------|--|
| Certificates/ approvals | | | |
| safety-related switching OFF | Yes | | |
| suitability for use | | | |
| touch protection on the front acc. to IEC 60529 | finger-safe, for vertical contact from the front with bo | ox terminal/cover | |
| protection class IP on the front acc. to IEC 60529 | IP00; IP20 with box terminal/cover | | |
| product function positively driven operation acc. to IEC 60947-5-1 | No | | |
| product function mirror contact acc. to IEC 60947-4-1 | Yes | | |
| Safety related data | | | |
| • for auxiliary contacts | 18 14 | | |
| AWG number as coded connectable conductor cross section | | | |
| at AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 1x 12 | | |
| — finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | , | |
| solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 2,5 mm²) | | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (| 0.75 4 mm²) | |
| for auxiliary contacts | | | |
| type of connectable conductor cross-sections | | | |
| finely stranded with core end processing | 0.5 2.5 mm ² | | |
| solid or stranded | 0.5 4 mm² | | |
| connectable conductor cross-section for auxiliary contacts | | | |
| • stranded | 70 240 mm² | | |
| contacts | | | |
| connectable conductor cross-section for main | | | |
| at AWG cables for main contacts | 2/0 500 kcmil | | |
| type of connectable conductor cross-sections | Co.on type terrinials | | |
| of magnet coil | Screw-type terminals Screw-type terminals | | |
| at contactor for auxiliary contacts | Screw-type terminals Screw-type terminals | | |
| for auxiliary and control circuit | Connection bar screw-type terminals | | |
| for main current circuit | Connection bar | | |
| number of holes type of electrical connection | 1 | | |
| diameter of holes | 11 mm | | |
| thickness of connection bar | 6 mm | | |
| width of connection bar | 25 mm | | |
| Connections/ Terminals | 05 | | |
| — at the side | 10 mm | | |
| — downwards | 10 mm | | |
| — upwards | 10 mm | | |
| — forwards | 20 mm | | |
| • for live parts | | | |
| — downwards | 10 mm | | |
| — at the side | 10 mm | | |
| — upwards | 10 mm | | |
| — forwards | 20 mm | | |
| for grounded parts | | | |
| — at the side | 0 mm | | |
| — downwards | 10 mm | | |
| — upwards | 10 mm | | |
| — forwards | 20 mm | | |
| | | | |







<u>KC</u>





Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates

Marine / Shipping

Type Examination Certificate



UK Declaration of Conformity Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping other Railway





<u>Confirmation</u> <u>Miscellaneous</u>

<u>us</u>

Confirmation

Special Test Certificate

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=3RT1265-6AP36

Cax online generator

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, ...)

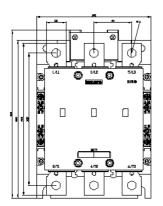
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1265-6AP36&lang=en

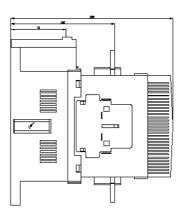
Characteristic: Tripping characteristics, I2t, Let-through current

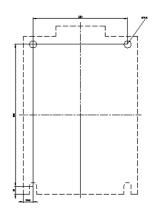
https://support.industry.siemens.com/cs/ww/en/ps/3RT1265-6AP36/char

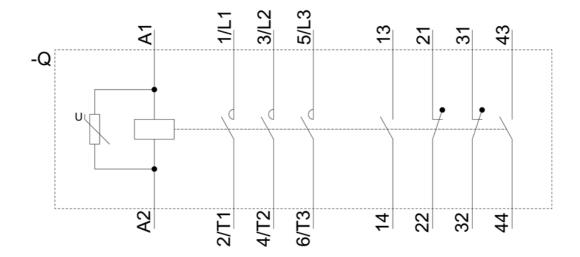
Further characteristics (e.g. electrical endurance, switching frequency)

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









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