



Power contactor, AC-3 265 A, 132 kW / 400 V AC (50-60 Hz) / DC operation 23-26 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, Size S10 Busbar connections Drive: conventional Spring-type terminal

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| product brand name | SIRIUS |
| product designation | Power contactor |
| product type designation | 3RT1 |
| 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 | 54 W |
| • per pole | 18 W |
| power loss [W] for rated value of the current without load current share typical | 7.4 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 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| • ambient temperature during operation | -25 ... +60 °C |
| • ambient temperature during storage | -55 ... +80 °C |
| Main circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |

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| <ul style="list-style-type: none"> operating voltage at AC-3 rated value maximum | 1 000 V |
| operational current | |
| <ul style="list-style-type: none"> at AC-1 at 400 V at ambient temperature 40 °C rated value | 330 A |
| <ul style="list-style-type: none"> at AC-1 <ul style="list-style-type: none"> up to 690 V at ambient temperature 40 °C rated value | 330 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 690 V at ambient temperature 60 °C rated value | 300 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 1000 V at ambient temperature 40 °C rated value | 150 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 1000 V at ambient temperature 60 °C rated value | 150 A |
| <ul style="list-style-type: none"> at AC-3 <ul style="list-style-type: none"> at 400 V rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 500 V rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 690 V rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 1000 V rated value | 95 A |
| <ul style="list-style-type: none"> at AC-4 at 400 V rated value | 230 A |
| <ul style="list-style-type: none"> at AC-5a up to 690 V rated value | 290 A |
| <ul style="list-style-type: none"> at AC-5b up to 400 V rated value | 219 A |
| <ul style="list-style-type: none"> at AC-6a <ul style="list-style-type: none"> up to 230 V for current peak value n=20 rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 400 V for current peak value n=20 rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 500 V for current peak value n=20 rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 690 V for current peak value n=20 rated value | 265 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 1000 V for current peak value n=20 rated value | 95 A |
| <ul style="list-style-type: none"> at AC-6a <ul style="list-style-type: none"> up to 230 V for current peak value n=30 rated value | 184 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 400 V for current peak value n=30 rated value | 184 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 500 V for current peak value n=30 rated value | 184 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 690 V for current peak value n=30 rated value | 184 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> up to 1000 V for current peak value n=30 rated value | 95 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 | |
| <ul style="list-style-type: none"> at 400 V rated value | 117 A |
| <ul style="list-style-type: none"> at 690 V rated value | 105 A |
| operational current | |
| <ul style="list-style-type: none"> at 1 current path at DC-1 <ul style="list-style-type: none"> at 24 V rated value | 300 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 110 V rated value | 33 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 220 V rated value | 3.8 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 440 V rated value | 0.9 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 600 V rated value | 0.6 A |
| <ul style="list-style-type: none"> with 2 current paths in series at DC-1 <ul style="list-style-type: none"> at 24 V rated value | 300 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 110 V rated value | 300 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 220 V rated value | 300 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 440 V rated value | 4 A |
| <ul style="list-style-type: none"> <ul style="list-style-type: none"> at 600 V rated value | 2 A |

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| <ul style="list-style-type: none"> ● with 3 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value | 300 A 300 A 300 A 11 A 5.2 A |
| operational current <ul style="list-style-type: none"> ● at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value ● with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value ● with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value — at 220 V rated value — at 440 V rated value — at 600 V rated value | 300 A 3 A 0.6 A 0.18 A 0.125 A 300 A 300 A 2.5 A 0.65 A 0.37 A 300 A 300 A 300 A 1.4 A 0.75 A |
| operating power <ul style="list-style-type: none"> ● at AC-3 <ul style="list-style-type: none"> — at 230 V rated value — at 400 V rated value — at 500 V rated value — at 690 V rated value — at 1000 V rated value | 75 kW 132 kW 160 kW 250 kW 132 kW |
| operating power for approx. 200000 operating cycles at AC-4 <ul style="list-style-type: none"> ● at 400 V rated value ● at 690 V rated value | 66 kW 102 kW |
| operating apparent power at AC-6a <ul style="list-style-type: none"> ● up to 230 V for current peak value n=20 rated value ● up to 400 V for current peak value n=20 rated value ● up to 500 V for current peak value n=20 rated value ● up to 690 V for current peak value n=20 rated value ● up to 1000 V for current peak value n=20 rated value | 100 000 kV·A 180 000 V·A 220 000 V·A 310 000 V·A 160 000 V·A |
| operating apparent power at AC-6a <ul style="list-style-type: none"> ● up to 230 V for current peak value n=30 rated value ● up to 400 V for current peak value n=30 rated value ● up to 500 V for current peak value n=30 rated value ● up to 690 V for current peak value n=30 rated value ● up to 1000 V for current peak value n=30 rated value | 70 000 V·A 120 000 V·A 150 000 V·A 220 000 V·A 160 000 V·A |
| short-time withstand current in cold operating state up to 40 °C <ul style="list-style-type: none"> ● 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 | 4 880 A; Use minimum cross-section acc. to AC-1 rated value 4 045 A; Use minimum cross-section acc. to AC-1 rated value 2 785 A; Use minimum cross-section acc. to AC-1 rated value 1 664 A; Use minimum cross-section acc. to AC-1 rated value 1 276 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency <ul style="list-style-type: none"> ● at AC | 2 000 1/h |

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| <ul style="list-style-type: none"> • at DC | 2 000 1/h |
| operating frequency | |
| <ul style="list-style-type: none"> • at AC-1 maximum • at AC-2 maximum • at AC-3 maximum • at AC-4 maximum | 800 1/h 300 1/h 700 1/h 130 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value | 23 ... 26 V 23 ... 26 V |
| control supply voltage at DC | |
| <ul style="list-style-type: none"> • rated value | 23 ... 26 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| <ul style="list-style-type: none"> • initial value • full-scale value | 0.8 1.1 |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| <ul style="list-style-type: none"> • at 50 Hz • at 60 Hz | 0.8 ... 1.1 0.8 ... 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | |
| <ul style="list-style-type: none"> • at 50 Hz | 590 V·A |
| inductive power factor with closing power of the coil | |
| <ul style="list-style-type: none"> • at 50 Hz | 0.9 |
| apparent holding power of magnet coil at AC | |
| <ul style="list-style-type: none"> • at 50 Hz | 6.7 V·A |
| inductive power factor with the holding power of the coil | |
| <ul style="list-style-type: none"> • at 50 Hz | 0.9 |
| closing power of magnet coil at DC | 650 W |
| holding power of magnet coil at DC | 7.4 W |
| closing delay | |
| <ul style="list-style-type: none"> • at AC • at DC | 30 ... 95 ms 30 ... 95 ms |
| opening delay | |
| <ul style="list-style-type: none"> • at AC • at DC | 40 ... 80 ms 40 ... 80 ms |
| arcing time | 10 ... 15 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 | |
| <ul style="list-style-type: none"> • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value | 6 A 3 A 2 A 1 A |
| operational current at DC-12 | |
| <ul style="list-style-type: none"> • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value | 10 A 6 A 6 A 3 A 2 A 1 A |

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| <ul style="list-style-type: none"> • at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 10 A 2 A 2 A 1 A 0.9 A 0.3 A 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 | |
| <ul style="list-style-type: none"> • at 480 V rated value • at 600 V rated value | 240 A 242 A |
| yielded mechanical performance [hp] | |
| <ul style="list-style-type: none"> • for 3-phase AC motor <ul style="list-style-type: none"> — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value | 75 hp 100 hp 200 hp 250 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit <ul style="list-style-type: none"> — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required | gG: 500 A (690 V, 100 kA) gG: 400 A (690 V, 100 kA), aM: 315 A (690 V, 50 kA), BS88: 400 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method | screw fixing |
| <ul style="list-style-type: none"> • side-by-side mounting | Yes |
| height | 210 mm |
| width | 145 mm |
| depth | 202 mm |
| required spacing | |
| <ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards — upwards — downwards — at the side • for grounded parts <ul style="list-style-type: none"> — forwards — upwards — at the side — downwards • for live parts <ul style="list-style-type: none"> — forwards — upwards — downwards — at the side | 20 mm 10 mm 10 mm 0 mm 20 mm 10 mm 10 mm 10 mm 20 mm 10 mm 10 mm 10 mm |
| Connections/ Terminals | |
| width of connection bar | 25 mm |
| thickness of connection bar | 6 mm |
| diameter of holes | 11 mm |
| number of holes | 1 |

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| type of electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil | Connection bar spring-loaded terminals Spring-type terminals Spring-type terminals |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> • at AWG cables for main contacts | 2/0 ... 500 kcmil |
| connectable conductor cross-section for main contacts <ul style="list-style-type: none"> • stranded | 70 ... 240 mm ² |
| connectable conductor cross-section for auxiliary contacts <ul style="list-style-type: none"> • solid or stranded • finely stranded with core end processing • finely stranded without core end processing | 0.25 ... 2.5 mm ² 0.25 ... 1.5 mm ² 0.25 ... 2.5 mm ² |
| type of connectable conductor cross-sections <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for auxiliary contacts | 2x (0.25 ... 2.5 mm ²) 2x (0,25 ... 2,5 mm ²) 2x (0.25 ... 1.5 mm ²) 2x (0.25 ... 2.5 mm ²) 2x (24 ... 14) |
| <ul style="list-style-type: none"> • AWG number as coded connectable conductor cross section for auxiliary contacts | 24 ... 14 |

| Safety related data | |
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| B10 value with high demand rate acc. to SN 31920 | 1 000 000 |
| product function <ul style="list-style-type: none"> • mirror contact acc. to IEC 60947-4-1 • positively driven operation acc. to IEC 60947-5-1 | Yes No |
| protection class IP on the front acc. to IEC 60529 | IP00; IP20 with box terminal/cover |
| touch protection on the front acc. to IEC 60529 | finger-safe, for vertical contact from the front with box terminal/cover |
| suitability for use safety-related switching OFF | Yes |

| Certificates/ approvals | |
|--------------------------|-----|
| General Product Approval | EMC |



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| Declaration of Conformity | Test Certificates | Marine / Shipping |
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



| Marine / Shipping | other | Railway |
|-------------------|-------|---------|
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[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=3RT1065-2AB36>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1065-2AB36>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AB36>

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

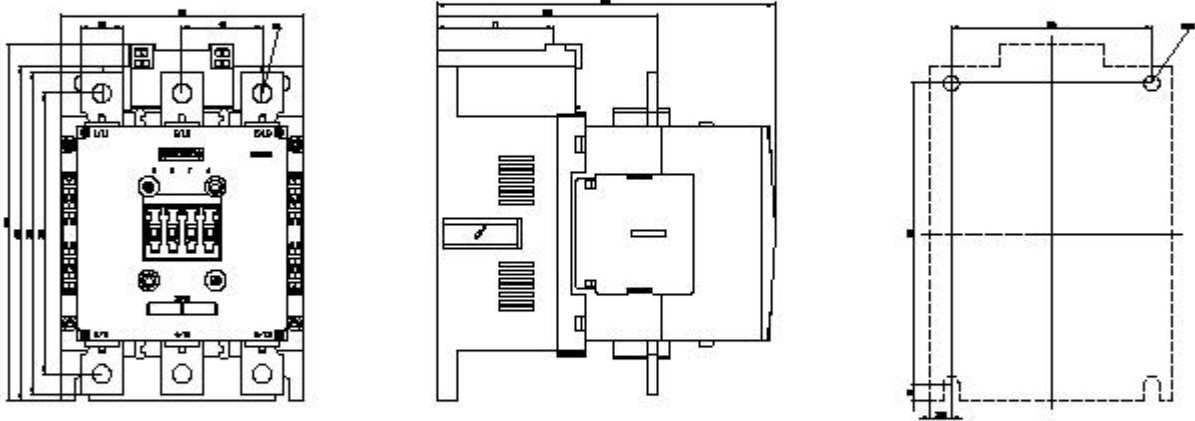
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1065-2AB36&lang=en

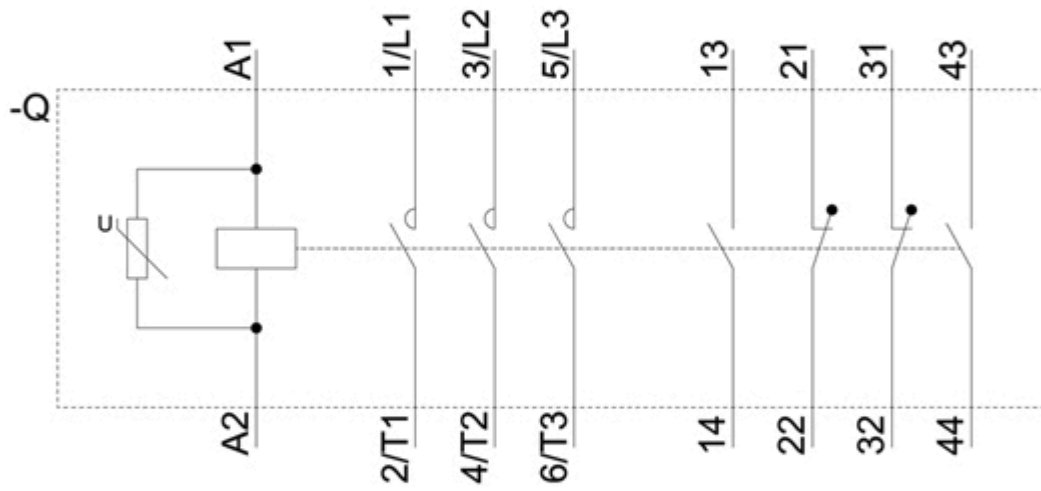
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1065-2AB36/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1065-2AB36&objecttype=14&gridview=view1>





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