

Power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 24 V DC 0.7-1.25* Us Diode, 3-pole, Size S00 Screw terminal !!! Phased-out product !!! Successor is SIRIUS 3RT2 Preferred successor type is >>3RT2017-1JB41<<



| | |
|---|-----------------|
| Product brand name | SIRIUS |
| Product designation | power contactor |
| General technical data | |
| Size of contactor | S00 |
| Degree of pollution | 3 |
| Protection class IP | |
| • on the front | IP20 |
| • of the terminal | IP20 |
| Mechanical service life (switching cycles) | |
| • of contactor typical | 30 000 000 |
| Reference code acc. to DIN EN 81346-2 | Q |
| Ambient conditions | |
| Installation altitude at height above sea level | |
| • maximum | 2 000 m |
| Ambient temperature | |
| • during operation | -25 ... +60 °C |
| Main circuit | |
| Number of poles for main current circuit | 3 |

| | |
|--|---|
| Number of NO contacts for main contacts | 3 |
| Number of NC contacts for main contacts | 0 |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-1 at 400 V <ul style="list-style-type: none"> — at ambient temperature 40 °C rated value • at AC-1 <ul style="list-style-type: none"> — up to 690 V at ambient temperature 40 °C rated value — up to 690 V at ambient temperature 60 °C rated value • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value • at AC-4 at 400 V rated value | <p>22 A</p> <p>22 A</p> <p>20 A</p> <p>12 A</p> <p>8.5 A</p> |
| Operating 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 — at 110 V rated value • with 2 current paths in series at DC-1 <ul style="list-style-type: none"> — at 24 V rated value — at 110 V rated value • 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 | <p>20 A</p> <p>2.1 A</p> <p>20 A</p> <p>12 A</p> <p>20 A</p> <p>20 A</p> |
| Operating 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 • 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 • 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 | <p>20 A</p> <p>0.15 A</p> <p>20 A</p> <p>0.35 A</p> <p>20 A</p> <p>20 A</p> |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-1 <ul style="list-style-type: none"> — at 400 V rated value • at AC-2 at 400 V rated value • at AC-3 <ul style="list-style-type: none"> — at 400 V rated value — at 500 V rated value — at 690 V rated value | <p>13 kW</p> <p>5.5 kW</p> <p>5.5 kW</p> <p>5.5 kW</p> <p>5.5 kW</p> |

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| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 1.24 W |
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Control circuit/ Control

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| Type of voltage of the control supply voltage | DC |
| Control supply voltage at DC <ul style="list-style-type: none"> rated value | 24 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 | 0.7 1.25 |
| Design of the surge suppressor | with diode |
| Closing power of magnet coil at DC | 2.3 W |
| Holding power of magnet coil at DC | 2.3 W |

Auxiliary circuit

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|---|---|
| Number of NC contacts for auxiliary contacts <ul style="list-style-type: none"> instantaneous contact | 0 |
| Number of NO contacts for auxiliary contacts <ul style="list-style-type: none"> instantaneous contact | 1 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 <ul style="list-style-type: none"> at 230 V rated value at 400 V rated value | 6 A 3 A |
| Operating current at DC-12 <ul style="list-style-type: none"> at 60 V rated value at 110 V rated value at 220 V rated value | 6 A 3 A 1 A |
| Operating current at DC-13 <ul style="list-style-type: none"> at 24 V rated value at 60 V rated value at 110 V rated value at 220 V rated value | 10 A 2 A 1 A 0.3 A |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

Short-circuit protection

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| 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 | fuse gL/gG: 35 A fuse gL/gG: 20 A fuse gL/gG: 10 A |
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Installation/ mounting/ dimensions

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| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <ul style="list-style-type: none"> • Side-by-side mounting | Yes |
| Height | 57.5 mm |
| Width | 45 mm |
| Depth | 72 mm |
| Required spacing | |
| <ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — at the side | 6 mm |

Connections/ Terminals

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|---|--|
| Type of electrical connection | |
| <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit | screw-type terminals screw-type terminals |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid — single or multi-stranded — finely stranded with core end processing • at AWG conductors for main contacts | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) 2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), max. 2x (0,75 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid — finely stranded with core end processing • at AWG conductors for auxiliary contacts | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), max. 2x (0.75 ... 4 mm ²) 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 1x 12 |

Certificates/ approvals

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|--------------------------|---------------------------------------|---------------------------|
| General Product Approval | Functional Safety/Safety of Machinery | Declaration of Conformity |
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[Type Examination Certificate](#)



| | | |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|

[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



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|-------------------|-------|---------|
| Marine / Shipping | other | Railway |
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[Confirmation](#)

[Miscellaneous](#)

[Special Test Certificate](#)

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1017-1JB41>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1017-1JB41>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1017-1JB41>

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

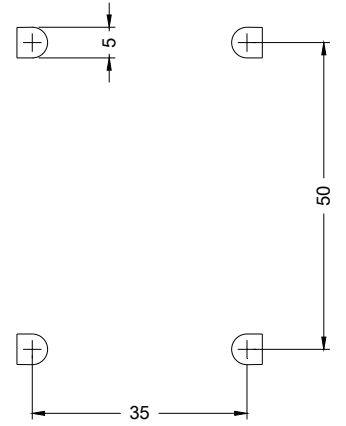
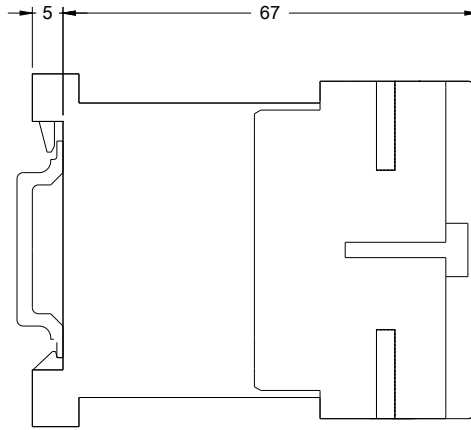
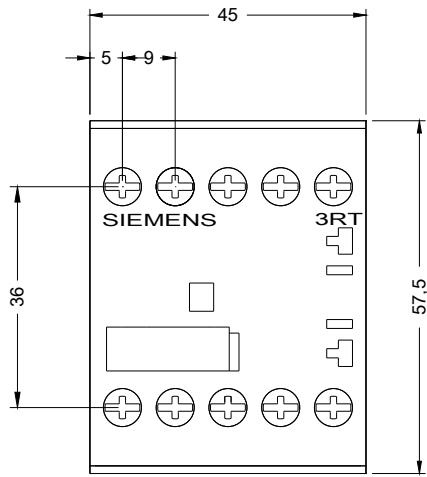
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1017-1JB41&lang=en

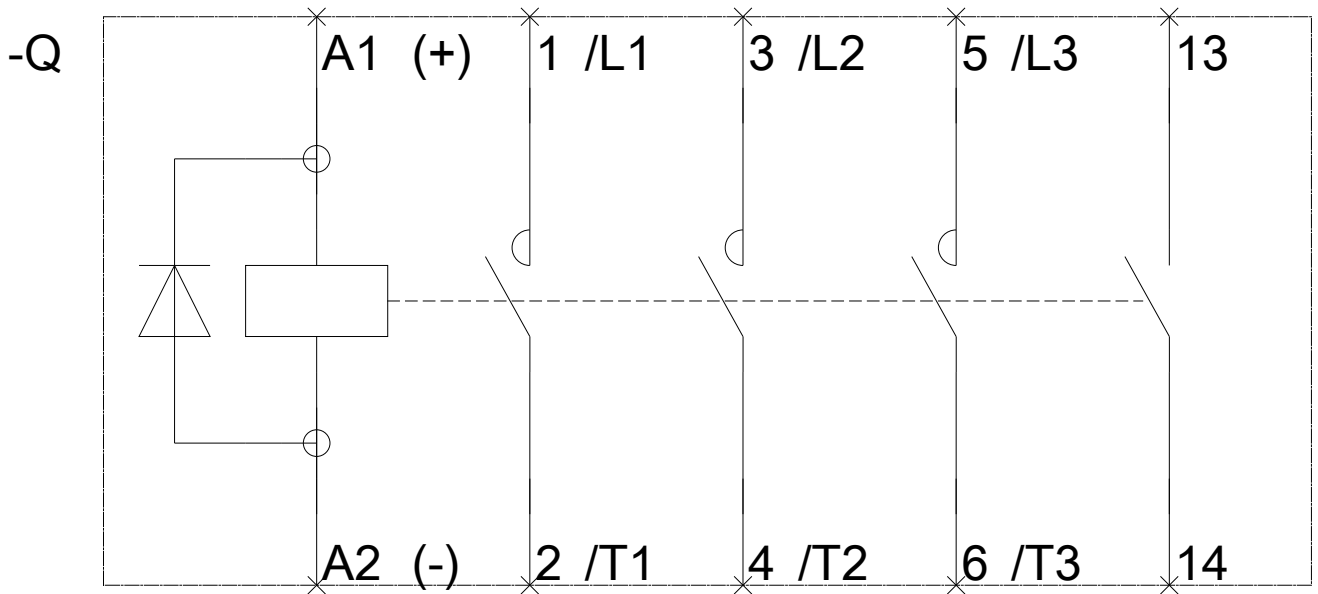
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT1017-1JB41/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1017-1JB41&objecttype=14&gridview=view1>





last modified:

08/01/2019