



Power contactor, AC-3 25 A, 11 kW / 400 V 2 NO + 2 NC 220 V DC, 50 Hz 240 V, 60Hz, 1 NO + 1 NC 4-pole size S0 Spring-type terminals 1 NO + 1 NC integrated

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|---|--|
| <b>product brand name</b>   | SIRIUS   |
| <b>product designation</b>  | contactor  |
| <b>product type designation</b>   | 3RT25  |
| <b>General technical data</b>   |  |
| <b>size of contactor</b>  | S0   |
| <b>product extension</b>  |  |
| <ul style="list-style-type: none"> <li>function module for communication</li> <li>auxiliary switch</li> </ul>   | <p>No</p> <p>Yes</p>                                 |
| <b>insulation voltage</b>   |  |
| <ul style="list-style-type: none"> <li>of main circuit with degree of pollution 3 rated value</li> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>   | <p>690 V</p> <p>690 V</p>                            |
| <b>surge voltage resistance</b>   |  |
| <ul style="list-style-type: none"> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> </ul>   | <p>6 kV</p> <p>6 kV</p>                              |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1   | 400 V  |
| <b>shock resistance at rectangular impulse</b>  |  |
| <ul style="list-style-type: none"> <li>at AC</li> </ul>   | 8,3g / 5 ms, 5,3g / 10 ms                            |
| <b>shock resistance with sine pulse</b>   |  |
| <ul style="list-style-type: none"> <li>at AC</li> </ul>   | 13,5g / 5 ms, 8,3g / 10 ms                           |
| <b>mechanical service life (switching cycles)</b>   |  |
| <ul style="list-style-type: none"> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> </ul> | <p>10 000 000</p> <p>5 000 000</p> <p>10 000 000</p> |
| <b>reference code according to IEC 81346-2</b>  | Q  |
| <b>Substance Prohibitance (Date)</b>  | 10/01/2009   |
| <b>Ambient conditions</b>   |  |
| installation altitude at height above sea level maximum   | 2 000 m  |
| <b>ambient temperature</b>  |  |
| <ul style="list-style-type: none"> <li>during operation</li> <li>during storage</li> </ul>  | <p>-25 ... +60 °C</p> <p>-55 ... +80 °C</p>          |
| <b>relative humidity minimum</b>  | 10 %   |
| <b>relative humidity at 55 °C according to IEC 60068-2-30 maximum</b>   | 95 %   |
| <b>Main circuit</b>   |  |
| <b>number of poles for main current circuit</b>   | 4  |
| <b>number of NO contacts for main contacts</b>  | 2  |

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| <b>number of NC contacts for main contacts</b>   | 2   |
| <b>operational current</b>   |   |
| <ul style="list-style-type: none"> <li>● at AC-1 up to 690 V <ul style="list-style-type: none"> <li>— at ambient temperature 40 °C rated value</li> <li>— at ambient temperature 60 °C rated value</li> </ul> </li> <li>● at AC-2 at AC-3 at 400 V <ul style="list-style-type: none"> <li>— per NO contact rated value</li> <li>— per NC contact rated value</li> </ul> </li> </ul>  | 40 A<br>35 A<br>25 A<br>25 A  |
| minimum cross-section in main circuit at maximum AC-1 rated value  | 10 mm <sup>2</sup>  |
| <b>operational current</b>   |   |
| <ul style="list-style-type: none"> <li>● <b>at 1 current path at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> </ul> </li> <li>● <b>with 2 current paths in series at DC-1</b> <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> </ul> </li> <li>● <b>at 1 current path at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V per NC contact rated value</li> <li>— at 24 V per NO contact rated value</li> <li>— at 110 V per NC contact rated value</li> <li>— at 110 V per NO contact rated value</li> <li>— at 220 V per NC contact rated value</li> <li>— at 220 V per NO contact rated value</li> <li>— at 440 V per NC contact rated value</li> <li>— at 440 V per NO contact rated value</li> </ul> </li> <li>● <b>with 2 current paths in series at DC-3 at DC-5</b> <ul style="list-style-type: none"> <li>— at 24 V per NC contact rated value</li> <li>— at 24 V per NO contact rated value</li> <li>— at 110 V per NC contact rated value</li> <li>— at 110 V per NO contact rated value</li> <li>— at 220 V per NC contact rated value</li> <li>— at 220 V per NO contact rated value</li> <li>— at 440 V per NC contact rated value</li> <li>— at 440 V per NO contact rated value</li> </ul> </li> </ul> | 35 A<br>4.5 A<br>1 A<br>0.4 A<br>35 A<br>35 A<br>5 A<br>1 A<br>20 A<br>20 A<br>1.25 A<br>2.5 A<br>0.5 A<br>1 A<br>0.045 A<br>0.09 A<br>35 A<br>35 A<br>7.5 A<br>15 A<br>1.5 A<br>3 A<br>0.135 A<br>0.27 A   |
| operating power at AC-2 at AC-3  |   |
| <ul style="list-style-type: none"> <li>● at 230 V per NC contact rated value</li> <li>● at 230 V per NO contact rated value</li> <li>● at 400 V per NC contact rated value</li> <li>● at 400 V per NO contact rated value</li> </ul>   | 5.5 kW<br>5.5 kW<br>11 kW<br>11 kW  |
| <b>short-time withstand current in cold operating state up to 40 °C</b>  |   |
| <ul style="list-style-type: none"> <li>● limited to 1 s switching at zero current maximum</li> <li>● limited to 5 s switching at zero current maximum</li> <li>● limited to 10 s switching at zero current maximum</li> <li>● limited to 30 s switching at zero current maximum</li> <li>● limited to 60 s switching at zero current maximum</li> </ul>  | 200 A; Use minimum cross-section acc. to AC-1 rated value<br>200 A; Use minimum cross-section acc. to AC-1 rated value<br>200 A; Use minimum cross-section acc. to AC-1 rated value<br>128 A; Use minimum cross-section acc. to AC-1 rated value<br>106 A; Use minimum cross-section acc. to AC-1 rated value |
| <b>power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor</b>  | 1.6 W   |
| <b>no-load switching frequency</b>   |   |
| <ul style="list-style-type: none"> <li>● at AC</li> <li>● at DC</li> </ul>   | 5 000 1/h<br>1 500 1/h  |
| <b>operating frequency</b>   |   |
| <ul style="list-style-type: none"> <li>● at AC-1 maximum</li> </ul>  | 1 000 1/h   |
| <b>Control circuit/ Control</b>  |   |
| <b>type of voltage of the control supply voltage</b>   | AC  |
| <b>control supply voltage at AC</b>  |   |

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|---|--|
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>  | 220 V<br>240 V                                       |
| <b>operating range factor control supply voltage rated value of magnet coil at AC</b>   |  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>  | 0.8 ... 1.1<br>0.8 ... 1.1                           |
| <b>apparent pick-up power of magnet coil at AC</b>  | 87 VA  |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>  | 87 VA<br>87 VA                                       |
| <b>inductive power factor with closing power of the coil</b>  | 0.82   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>  | 0.76<br>0.76   |
| <b>apparent holding power of magnet coil at AC</b>  | 9.4 VA   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>  | 9.4 VA<br>9.4 VA                                     |
| <b>inductive power factor with the holding power of the coil</b>  | 0.28   |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>  | 0.28<br>0.28   |
| <b>closing delay</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>   | 8 ... 40 ms  |
| <b>opening delay</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>   | 4 ... 16 ms  |
| <b>arcing time</b>  | 10 ... 10 ms   |
| <b>residual current of the electronics for control with signal &lt;0&gt;</b>  |  |
| <ul style="list-style-type: none"> <li>• at AC at 230 V maximum permissible</li> </ul>  | 0.007 A  |
| <b>Auxiliary circuit</b>  |  |
| number of NC contacts for auxiliary contacts instantaneous contact  | 1  |
| number of NO contacts for auxiliary contacts instantaneous contact  | 1  |
| operational current at AC-12 maximum  | 10 A   |
| <b>operational current at AC-15</b>   |  |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>  | 10 A<br>3 A<br>2 A<br>1 A                            |
| <b>operational current at DC-12</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A    |
| <b>operational current at DC-13</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>2 A<br>2 A<br>1 A<br>0.9 A<br>0.3 A<br>0.1 A |
| <b>contact reliability of auxiliary contacts</b>  | 1 faulty switching per 100 million (17 V, 1 mA)      |
| <b>UL/CSA ratings</b>   |  |
| <b>yielded mechanical performance [hp]</b>  |  |
| <ul style="list-style-type: none"> <li>• for single-phase AC motor at 230 V rated value</li> <li>• for 3-phase AC motor at 460/480 V rated value</li> </ul>   | 3 hp<br>15 hp  |
| <b>contact rating of auxiliary contacts according to UL</b>   | A600 / Q600  |
| <b>Short-circuit protection</b>   |  |

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|--|--|
| <b>design of the fuse link</b> <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of coordination 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>   | gG: 63 A (690 V, 100 kA)<br>gG: 35 A (690 V, 50 kA)<br>fuse gG: 10 A   |
| <b>Installation/ mounting/ dimensions</b>  |  |
| <b>mounting position</b>   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface                               |
| <b>fastening method</b>  | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022   |
| <ul style="list-style-type: none"> <li>• side-by-side mounting</li> </ul>  | Yes  |
| <b>height</b>  | 102 mm   |
| <b>width</b>   | 61 mm  |
| <b>depth</b>   | 97 mm  |
| <b>required spacing</b> <ul style="list-style-type: none"> <li>• with side-by-side mounting <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— at the side</li> <li>— downwards</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— forwards</li> <li>— backwards</li> <li>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 0 mm<br>0 mm<br>0 mm<br>0 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>6 mm<br>0 mm<br><br>0 mm<br>0 mm<br>0 mm<br>0 mm<br>6 mm                                       |
| <b>Connections/ Terminals</b>  |  |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> <li>• at contactor for auxiliary contacts</li> <li>• of magnet coil</li> </ul>  | spring-loaded terminals<br>spring-loaded terminals<br>Spring-type terminals<br>Spring-type terminals   |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• at AWG cables for main contacts</li> </ul>  | 2x (1 ... 10 mm <sup>2</sup> )<br>2x (1 ... 10 mm <sup>2</sup> )<br>2x (1 ... 6 mm <sup>2</sup> )<br>2x (1 ... 6 mm <sup>2</sup> )<br>2x (18 ... 8)                |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>— finely stranded without core end processing</li> </ul> </li> <li>• at AWG cables for auxiliary contacts</li> </ul>  | 2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (20 ... 14) |
| AWG number as coded connectable conductor cross section for main contacts  | 18 ... 8   |
| <b>Safety related data</b>   |  |
| <b>product function</b> <ul style="list-style-type: none"> <li>• mirror contact according to IEC 60947-4-1</li> <li>• positively driven operation according to IEC 60947-5-1</li> </ul>  | Yes<br>No  |

|   |  |
|---|--|
| T1 value for proof test interval or service life according to IEC 61508 | 20 y   |
| protection class IP on the front according to IEC 60529                 | IP20   |
| touch protection on the front according to IEC 60529                    | finger-safe, for vertical contact from the front |

#### 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 Certificate](#)



#### Marine / Shipping



#### other

[Confirmation](#)



#### 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=3RT2526-2AP60>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2526-2AP60>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AP60>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2526-2AP60&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2526-2AP60&lang=en)

Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2526-2AP60/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2526-2AP60&objecttype=14&gridview=view1>

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