



CONTACTOR 3-PH 37 KW/400 V,  
110 V AC 60 HZ, 3-POLE, SIZE S3,  
2NO +2NC, MAIN CUR.: SCREW CONNECTION,  
MAIN CUR.: CAGE CLAMP

### General technical data:

|   |    |             |
|---|----|-------------|
| <b>product brand name</b>   |    | SIRIUS      |
| <b>Size of the contactor</b>  |    | S3          |
| <b>Protection class IP / on the front</b>   |    | IP20        |
| <b>Degree of pollution</b>  |    | 3           |
| <b>Installation altitude / at a height over sea level / maximum</b>   | m  | 2,000       |
| <b>Ambient temperature / during operating</b>   | °C | -25 ... +60 |
| <b>Mechanical operating cycles as operating time</b>  |    |             |
| <ul style="list-style-type: none"> <li>• of the contactor / typical</li> </ul>  |    | 10,000,000  |
| <ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block / typical</li> </ul>                        |    | 10,000,000  |
| <ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block / typical</li> </ul> |    | 5,000,000   |

### Main circuit:

|  |   |     |
|--|---|-----|
| <b>Number of NC contacts / for main contacts</b>   |   | 0   |
| <b>Number of NO contacts / for main contacts</b>   |   | 3   |
| <b>Operating current</b>   |   |     |
| <ul style="list-style-type: none"> <li>• at AC-1 / at 400 V <ul style="list-style-type: none"> <li>• at 40 °C ambient temperature / rated value</li> </ul> </li> </ul> | A | 120 |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>   | A | 80  |
| <ul style="list-style-type: none"> <li>• at AC-4 / at 400 V / rated value</li> </ul>   | A | 66  |

|  |    |        |
|--|----|--------|
| • with 1 current path / at DC-1                      | A  | 100    |
| • at 24 V / rated value                              | A  | 9      |
| • at 110 V / rated value                             |    |        |
| • with 2 current paths in series / at DC-1           | A  | 100    |
| • at 24 V / rated value                              | A  | 100    |
| • at 110 V / rated value                             |    |        |
| • with 3 current paths in series / at DC-1           | A  | 100    |
| • at 24 V / rated value                              | A  | 100    |
| • at 110 V / rated value                             |    |        |
| • with 1 current path / at DC-3 / at DC-5            | A  | 40     |
| • at 24 V / rated value                              | A  | 2.5    |
| • at 110 V / rated value                             |    |        |
| • with 2 current paths in series / at DC-3 / at DC-5 | A  | 100    |
| • at 24 V / rated value                              | A  | 100    |
| • at 110 V / rated value                             |    |        |
| • with 3 current paths in series / at DC-3 / at DC-5 | A  | 100    |
| • at 24 V / rated value                              | A  | 100    |
| • at 110 V / rated value                             |    |        |
| <b>Service power</b>                                 |    |        |
| • at AC-2 / at 400 V / rated value                   | kW | 37     |
| • at AC-3 / at 400 V / rated value                   | kW | 37     |
| • at AC-4 / at 400 V / rated value                   | W  | 37,000 |

| Control circuit:  |     |             |
|---|-----|-------------|
| <b>Voltage type / of control feed voltage</b>   |     | AC          |
| <b>Operating range factor control supply voltage rated value / of the magnet coil</b> |     |             |
| • at 60 Hz  |     |             |
| • for AC  |     | 0.8 ... 1.1 |
| <b>Apparent pull-in power / of the solenoid / for AC</b>                              | V·A | 300         |
| <b>Apparent holding power / of the solenoid / for AC</b>                              | V·A | 21          |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.52        |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.29        |

| Auxiliary circuit:  |  |   |
|---|--|---|
| <b>Contact reliability / of the auxiliary contacts</b>                          |  | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b> |  | 2   |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |  | 2   |

### Short-circuit:

|  |   |                   |
|--|---|-------------------|
| <b>Design of the fuse link</b>         | • for short-circuit protection of the auxiliary switch / required | fuse gL/gG: 10 A  |
|  | • for short-circuit protection of the main circuit                | fuse gL/gG: 250 A |
|  | • with type of assignment 1 / required                            | fuse gL/gG: 160 A |
| • at type of coordination 2 / required |   |                   |

### Installation/mounting/dimensions:

|   |    |  |
|---|----|--|
| <b>Mounting type</b>  |    | screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail |
| <b>series installation</b>                                    |    | Yes  |
| <b>Width</b>  | mm | 70   |
| <b>Height</b>   | mm | 146  |
| <b>Depth</b>  | mm | 188  |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 6  |

### Connection type:

|  |   |                                  |
|--|---|----------------------------------|
| <b>Design of the electrical connection</b>             | • for main current circuit                  | screw-type terminals             |
|  | • for auxiliary and control current circuit | Cage Clamp terminals             |
| <b>Type of the connectable conductor cross-section</b> | • for main contacts                         |                                  |
|  | • solid                                     | 2x (2.5 ... 16 mm <sup>2</sup> ) |
|  | • stranded                                  | 2x (10 ... 50 mm <sup>2</sup> )  |
|  | • finely stranded                           |                                  |
|  | • with conductor end processing             | 2x (2.5 ... 35 mm <sup>2</sup> ) |
|  | • without conductor final cutting           | 2x (10 ... 35 mm <sup>2</sup> )  |
|  | • for AWG conductors / for main contacts    | 2x (10 ... 1/0)                  |
|  | • for auxiliary contacts                    |                                  |
| • solid  | 2x (0.25 ... 2.5 mm <sup>2</sup> )          |                                  |
| • finely stranded                                      |   |                                  |
| • with conductor end processing                        | 2x (0.25 ... 1.5 mm <sup>2</sup> )          |                                  |
| • without conductor final cutting                      | 2x (0.25 ... 2.5 mm <sup>2</sup> )          |                                  |
| • for AWG conductors / for auxiliary contacts          | 2x (24 ... 14)                              |                                  |

### Certificates/approvals:

|                                 |  |                                  |
|---------------------------------|--|----------------------------------|
| <b>General Product Approval</b> | <b>Functional Safety / Safety of Machinery</b> | <b>Declaration of Conformity</b> |
|---------------------------------|--|----------------------------------|



CCC



CSA



UL

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<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://www.siemens.com/industrial-controls/mall>

**Cax online generator:**

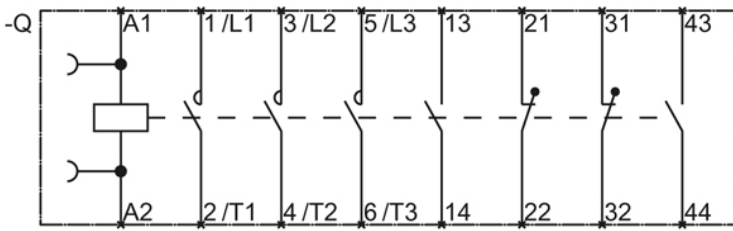
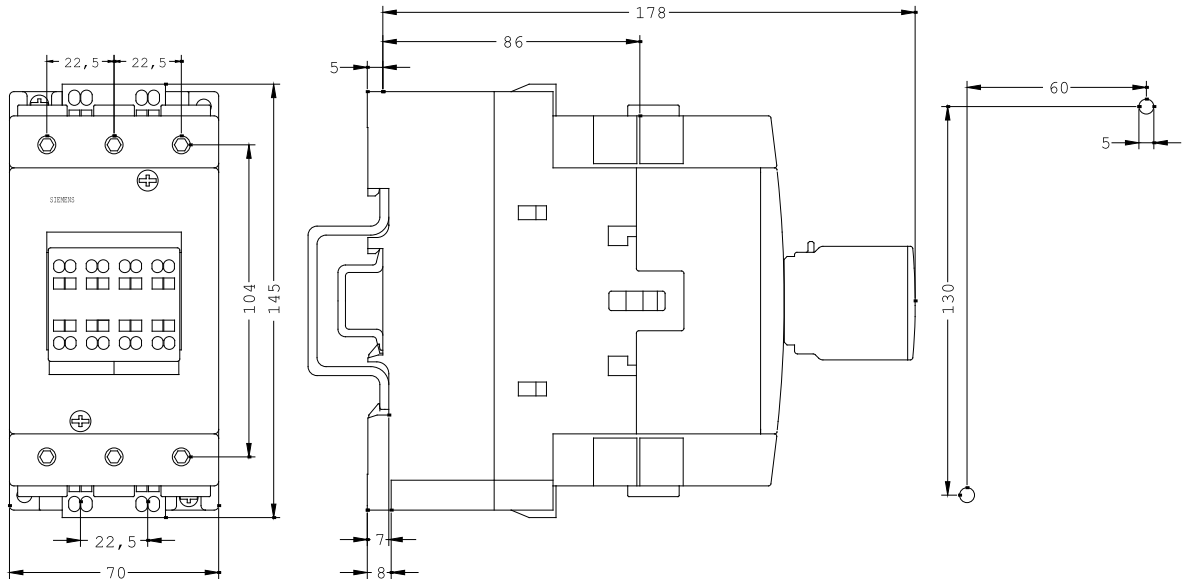
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**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RT1045-3AG14/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1045-3AG14](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1045-3AG14)



last change:

Jul 28, 2014