



CONTACTOR, AC-1 140 A,  
AC 240 V 60 HZ 4-POLE, SIZE S3,  
SCREW CONNECTION

| General technical data:                                                               |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S3          |
| Protection class IP / on the front                                                    |    | IP00        |
| Degree of pollution                                                                   |    | 3           |
| Installation altitude / at a height over sea level / maximum                          | m  | 2,000       |
| Ambient temperature / during operating                                                | °C | -25 ... +60 |
| Mechanical operating cycles as operating time                                         |    |             |
| • of the contactor / typical                                                          |    | 10,000,000  |
| • of the contactor with added auxiliary switch block / typical                        |    | 10,000,000  |
| • of the contactor with added electronics-compatible auxiliary switch block / typical |    | 5,000,000   |

| Main circuit:                                |   |     |
|----------------------------------------------|---|-----|
| Number of NC contacts / for main contacts    |   | 0   |
| Number of NO contacts / for main contacts    |   | 4   |
| Operational current                          |   |     |
| • at AC-1 / at 400 V                         |   |     |
| • at 40 °C ambient temperature / rated value | A | 140 |
| • at 60 °C ambient temperature / rated value | A | 120 |
| • with 1 current path / at DC-1              |   |     |

- at 24 V / rated value
- at 110 V / rated value
- with 2 current paths in series / at DC-1
  - at 24 V / rated value
  - at 110 V / rated value
- with 3 current paths in series / at DC-1
  - at 24 V / rated value
  - at 110 V / rated value
- with 1 current path / at DC-3 / at DC-5
  - at 24 V / rated value
  - at 110 V / rated value
- with 2 current paths in series / at DC-3 / at DC-5
  - at 24 V / rated value
  - at 110 V / rated value
- with 3 current paths in series / at DC-3 / at DC-5
  - at 24 V / rated value
  - at 110 V / rated value

|   |     |
|---|-----|
| A | 80  |
| A | 9   |
| A | 80  |
| A | 80  |
| A | 80  |
| A | 80  |
| A | 20  |
| A | 2.5 |
| A | 80  |
| A | 80  |
| A | 80  |
| A | 80  |

#### Control circuit:

|                                                                                       |     |             |
|---------------------------------------------------------------------------------------|-----|-------------|
| <b>Type of voltage / of the controlled supply voltage</b>                             |     | AC          |
| <b>Operating range factor control supply voltage rated value / of the magnet coil</b> |     |             |
| • at 50 Hz                                                                            |     |             |
| • for AC                                                                              |     | 0.8 ... 1.1 |
| • 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> |  | 0                                               |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |  | 0                                               |

#### 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                |  |                  |

- with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 250 A

fuse gL/gG: 160 A

#### Installation/mounting/dimensions:

|                                                               |    |                                                                        |
|---------------------------------------------------------------|----|------------------------------------------------------------------------|
| <b>Type of mounting</b>                                       |    | screw and snap-on mounting onto 35 mm and 75 mm standard mounting rail |
| <b>series installation</b>                                    |    | Yes                                                                    |
| <b>Width</b>                                                  | mm | 93                                                                     |
| <b>Height</b>                                                 | mm | 146                                                                    |
| <b>Depth</b>                                                  | mm | 139                                                                    |
| <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            |  | screw-type terminals                                                                                         |
| <b>Type of the connectable conductor cross-section</b> |  |                                                                                                              |
| • for main contacts                                    |  |                                                                                                              |
| • solid                                                |  | 2x (2.5 ... 16 mm <sup>2</sup> )                                                                             |
| • stranded                                             |  | 2x (4 ... 50 mm <sup>2</sup> )                                                                               |
| • finely stranded                                      |  |                                                                                                              |
| • with conductor end processing                        |  | 2x (2.5 ... 35 mm <sup>2</sup> )                                                                             |
| • without conductor final cutting                      |  | 2x (4 ... 35 mm <sup>2</sup> )                                                                               |
| • for AWG conductors / for main contacts               |  | 2x (10 ... 1/0)                                                                                              |
| • for auxiliary contacts                               |  |                                                                                                              |
| • solid                                                |  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), max. 2x (0.75 ... 4 mm <sup>2</sup> ) |
| • finely stranded                                      |  |                                                                                                              |
| • with conductor end processing                        |  | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )                                        |
| • for AWG conductors / for auxiliary contacts          |  | 2x (20 ... 16), 2x (18 ... 14), 1x 12                                                                        |

#### Certificates/approvals:

| General Product Approval |  |  | Functional Safety /<br>Safety of<br>Machinery | Declaration of<br>Conformity | Test Certificates |
|--------------------------|--|--|-----------------------------------------------|------------------------------|-------------------|
|--------------------------|--|--|-----------------------------------------------|------------------------------|-------------------|



CSA



GOST



UL

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#### Shipping Approval



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GL



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RINA



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#### Further information:

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

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

##### Industry Mall (Online ordering system)

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

##### Cax online generator:

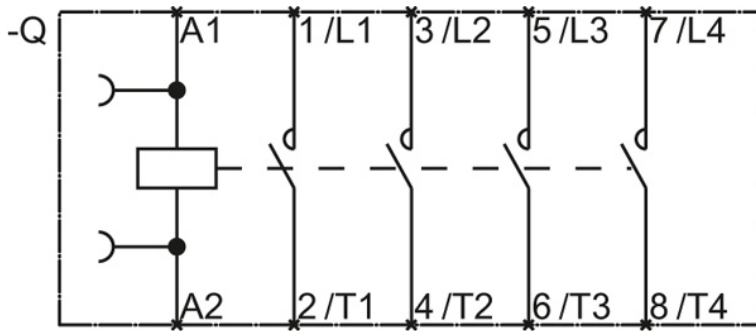
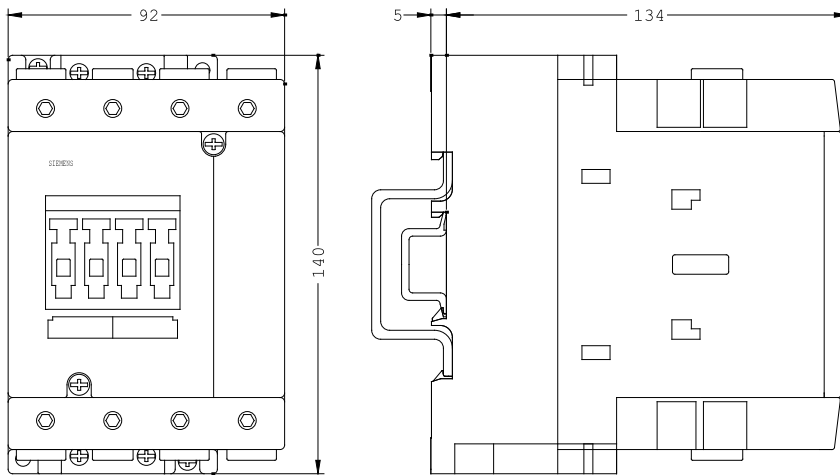
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1346-1AP60/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1346-1AP60](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1346-1AP60)



last change:

Feb 15, 2013