



CONTACTOR, AC-3 15 KW/400 V, AC 24 V,  
50 HZ, 3-POLE, SIZE S2,  
SCREW CONNECTION MOUNTING POSITION VERTICAL

| General technical data:                                                               |    |             |
|---------------------------------------------------------------------------------------|----|-------------|
| product brand name                                                                    |    | SIRIUS      |
| Size of the contactor                                                                 |    | S2          |
| Protection class IP / on the front                                                    |    | IP20        |
| 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                                             |    | 3           |
| Operating current                                                                     |    |             |
| • at AC-1 / at 400 V                                                                  |    |             |
| • at 40 °C ambient temperature / rated value                                          | A  | 50          |
| • at AC-3 / at 400 V / rated value                                                    | A  | 32          |
| • at AC-4 / at 400 V / rated value                                                    | A  | 29          |

|                                                      |    |        |
|------------------------------------------------------|----|--------|
| • with 1 current path / at DC-1                      |    |        |
| • at 24 V / rated value                              | A  | 45     |
| • at 110 V / rated value                             | A  | 4.5    |
| • with 2 current paths in series / at DC-1           |    |        |
| • at 24 V / rated value                              | A  | 45     |
| • at 110 V / rated value                             | A  | 25     |
| • with 3 current paths in series / at DC-1           |    |        |
| • at 24 V / rated value                              | A  | 45     |
| • at 110 V / rated value                             | A  | 45     |
| • with 1 current path / at DC-3 / at DC-5            |    |        |
| • at 24 V / rated value                              | A  | 35     |
| • at 110 V / rated value                             | A  | 2.5    |
| • with 2 current paths in series / at DC-3 / at DC-5 |    |        |
| • at 24 V / rated value                              | A  | 45     |
| • at 110 V / rated value                             | A  | 25     |
| • with 3 current paths in series / at DC-3 / at DC-5 |    |        |
| • at 24 V / rated value                              | A  | 45     |
| • at 110 V / rated value                             | A  | 45     |
| <b>Service power</b>                                 |    |        |
| • at AC-2 / at 400 V / rated value                   | kW | 15     |
| • at AC-3 / at 400 V / rated value                   | kW | 15     |
| • at AC-4 / at 400 V / rated value                   | W  | 15,000 |

| 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 50 Hz                                                                            |     |             |
| • for AC                                                                              |     | 0.8 ... 1.1 |
| <b>Apparent pull-in power / of the solenoid / for AC</b>                              | V·A | 104         |
| <b>Apparent holding power / of the solenoid / for AC</b>                              | V·A | 9.7         |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.78        |
| <b>Inductive power factor / with the pull-in power of the coil</b>                    |     | 0.42        |

| 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> <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch / required</li> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>• with type of assignment 1 / required</li> <li>• at type of coordination 2 / required</li> </ul> </li> </ul> |  | fuse gL/gG: 10 A<br><br>fuse gL/gG: 125 A<br><br>fuse gL/gG: 63 A |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------|

#### Installation/mounting/dimensions:

|                                                               |    |                                                                                        |
|---------------------------------------------------------------|----|----------------------------------------------------------------------------------------|
| <b>Mounting type</b>                                          |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <b>series installation</b>                                    |    | Yes                                                                                    |
| <b>Width</b>                                                  | mm | 55                                                                                     |
| <b>Height</b>                                                 | mm | 112                                                                                    |
| <b>Depth</b>                                                  | mm | 115                                                                                    |
| <b>Distance, to be maintained, to earthed part / sideways</b> | mm | 6                                                                                      |

#### Connection type:

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Design of the electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control current circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | screw-type terminals<br><br>screw-type terminals                                                                                                                                                                                                                                                                                                                                                                |
| <b>Type of the connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> <li>• without conductor final cutting</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for main contacts</li> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for auxiliary contacts</li> </ul> |  | 2x (0.75 ... 16 mm <sup>2</sup> )<br>2x (0.75 ... 25 mm <sup>2</sup> )<br><br>2x (0.75 ... 16 mm <sup>2</sup> )<br>2x (0.75 ... 16 mm <sup>2</sup> )<br>2x (18 ... 2)<br><br>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> )<br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 1x 12 |

#### Certificates/approvals:

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



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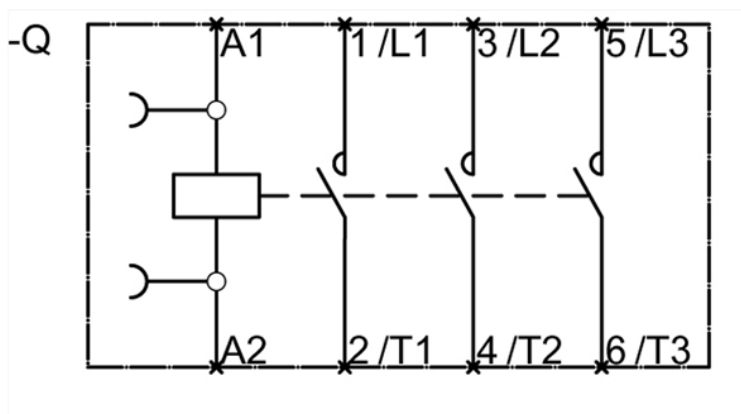
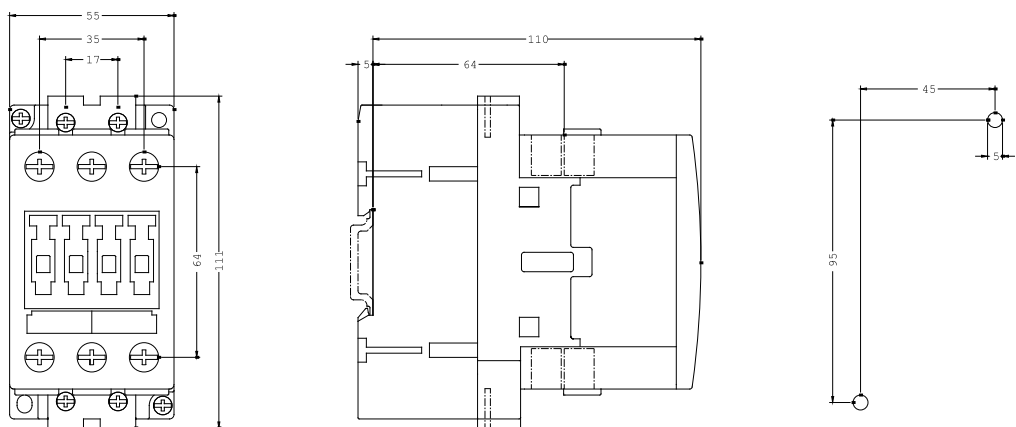
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<http://support.automation.siemens.com/WW/view/en/3RT1034-1AB00-1AA0/all>

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last change:

Jul 28, 2014