



CONTACTOR, AC-3 22KW/400V, DC 110V,  
0.7...1.25\*US, 3-POLE, SIZE S2,  
CAGE CLAMP CONNECTION

### 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 | -40 ... +70 |
| 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 | 60 |
| • at AC-3 / at 400 V / rated value           | A | 50 |
| • at AC-4 / at 400 V / rated value           | A | 41 |

|                                                      |    |        |
|------------------------------------------------------|----|--------|
| • with 1 current path / at DC-1                      |    |        |
| • at 24 V / rated value                              | A  | 55     |
| • at 110 V / rated value                             | A  | 4.5    |
| • with 2 current paths in series / at DC-1           |    |        |
| • at 24 V / rated value                              | A  | 55     |
| • at 110 V / rated value                             | A  | 25     |
| • with 3 current paths in series / at DC-1           |    |        |
| • at 24 V / rated value                              | A  | 55     |
| • at 110 V / rated value                             | A  | 55     |
| • 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  | 55     |
| • 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  | 55     |
| • at 110 V / rated value                             | A  | 55     |
| <b>Service power</b>                                 |    |        |
| • at AC-2 / at 400 V / rated value                   | kW | 22     |
| • at AC-3 / at 400 V / rated value                   | kW | 22     |
| • at AC-4 / at 400 V / rated value                   | W  | 22,000 |

| Control circuit:                                                                      |   |               |
|---------------------------------------------------------------------------------------|---|---------------|
| <b>Design of the surge suppressor</b>                                                 |   | with varistor |
| <b>Voltage type / of control feed voltage</b>                                         |   | DC            |
| <b>Operating range factor control supply voltage rated value / of the magnet coil</b> |   |               |
| • for DC                                                                              |   | 0.7 ... 1.25  |
| <b>Pull-in power / of the solenoid / for DC</b>                                       | W | 46            |
| <b>Holding power / of the solenoid / for DC</b>                                       | W | 14            |

| 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> |  | 1                                               |
| <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
- with type of assignment 1 / required
- at type of coordination 2 / required

fuse gL/gG: 160 A  
fuse gL/gG: 80 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 | 80                                                                                     |
| <b>Height</b>                                                 | mm | 110                                                                                    |
| <b>Depth</b>                                                  | mm | 167                                                                                    |
| <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>Cage Clamp 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> <li>• without conductor final cutting</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 (0.25 ... 2.5 mm <sup>2</sup> )<br><br>2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (0.25 ... 2.5 mm <sup>2</sup> )<br>2x (24 ... 14) |

#### Certificates/approvals:

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



[Type Examination](#)



#### Test Certificates

[Special Test  
Certificate](#)

[Type Test  
Certificates/Test  
Report](#)

#### Shipping Approval



#### Shipping Approval

other



[Confirmation](#)

[other](#)

[Environmental  
Confirmations](#)

#### 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:**

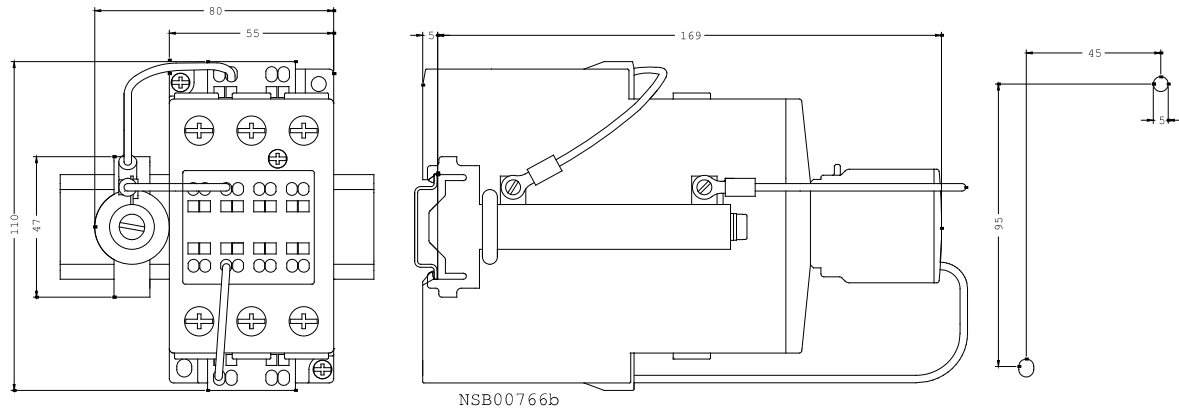
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RT1036-3KF44-0LA0/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RT1036-3KF44-0LA0](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT1036-3KF44-0LA0)



last change:

Jul 28, 2014