

Contactor, 4 NO, AC-1: 40 A 24 V AC, 50 Hz, 4-pole, 4 NO, Size S0, Screw terminal 1 NO + 1 NC integrated



|                                         |                            |
|-----------------------------------------|----------------------------|
| Product brand name                      | SIRIUS                     |
| Product designation                     | Contactor                  |
| Product type designation                | 3RT23                      |
| General technical data                  |                            |
| Size of contactor                       | S0                         |
| Product extension                       |                            |
| • function module for communication     | No                         |
| • Auxiliary switch                      | Yes                        |
| Surge voltage resistance                |                            |
| • of main circuit rated value           | 6 kV                       |
| • of auxiliary circuit rated value      | 6 kV                       |
| Protection class IP                     |                            |
| • on the front                          | IP20                       |
| • of the terminal                       | IP20                       |
| Shock resistance at rectangular impulse |                            |
| • at AC                                 | 8,3g / 5 ms, 5,3g / 10 ms  |
| Shock resistance with sine pulse        |                            |
| • at AC                                 | 13,5g / 5 ms, 8,3g / 10 ms |
| Reference code acc. to DIN EN 81346-2   | Q                          |

| Ambient conditions                                                                    |                |
|---------------------------------------------------------------------------------------|----------------|
| <b>Installation altitude at height above sea level</b>                                |                |
| • maximum                                                                             | 2 000 m        |
| <b>Ambient temperature</b>                                                            |                |
| • during operation                                                                    | -25 ... +60 °C |
| • during storage                                                                      | -55 ... +80 °C |
| Main circuit                                                                          |                |
| <b>Number of poles for main current circuit</b>                                       | 4              |
| <b>Number of NO contacts for main contacts</b>                                        | 4              |
| <b>Operating current</b>                                                              |                |
| • at AC-1                                                                             |                |
| — up to 690 V at ambient temperature 40 °C rated value                                | 40 A           |
| — up to 690 V at ambient temperature 60 °C rated value                                | 35 A           |
| • at AC-3                                                                             |                |
| — at 400 V rated value                                                                | 15.5 A         |
| • at AC-4 at 400 V rated value                                                        | 15.5 A         |
| <b>Connectable conductor cross-section in main circuit at AC-1</b>                    |                |
| • at 60 °C minimum permissible                                                        | 10 mm²         |
| • at 40 °C minimum permissible                                                        | 10 mm²         |
| <b>Operating power</b>                                                                |                |
| • at AC-3                                                                             |                |
| — at 400 V rated value                                                                | 7.5 kW         |
| • at AC-4 at 400 V rated value                                                        | 7.5 kW         |
| <b>No-load switching frequency</b>                                                    |                |
| • at AC                                                                               | 5 000 1/h      |
| <b>Operating frequency</b>                                                            |                |
| • at AC-1 maximum                                                                     | 1 000 1/h      |
| Control circuit/ Control                                                              |                |
| <b>Type of voltage of the control supply voltage</b>                                  | AC             |
| <b>Control supply voltage at AC</b>                                                   |                |
| • at 50 Hz rated value                                                                | 24 V           |
| <b>Operating range factor control supply voltage rated value of magnet coil at AC</b> |                |
| • at 50 Hz                                                                            | 0.8 ... 1.1    |
| <b>Apparent pick-up power of magnet coil at AC</b>                                    |                |
| • at 50 Hz                                                                            | 77 V·A         |
| <b>Inductive power factor with closing power of the coil</b>                          |                |
| • at 50 Hz                                                                            | 0.82           |
| <b>Apparent holding power of magnet coil at AC</b>                                    |                |

|                                                                  |                  |
|------------------------------------------------------------------|------------------|
| • at 50 Hz                                                       | 9.8 V·A          |
| <b>Inductive power factor with the holding power of the coil</b> |                  |
| • at 50 Hz                                                       | 0.25             |
| <b>Closing delay</b>                                             |                  |
| • at AC                                                          | 8 ... 40 ms      |
| <b>Opening delay</b>                                             |                  |
| • at AC                                                          | 4 ... 16 ms      |
| <b>Arcing time</b>                                               | 10 ... 10 ms     |
| <b>Control version of the switch operating mechanism</b>         | Standard A1 - A2 |

#### Auxiliary circuit

|                                                     |                                                 |
|-----------------------------------------------------|-------------------------------------------------|
| <b>Number of NC contacts for auxiliary contacts</b> |                                                 |
| • instantaneous contact                             | 1                                               |
| <b>Number of NO contacts for auxiliary contacts</b> |                                                 |
| • instantaneous contact                             | 1                                               |
| <b>Operating current at AC-12</b>                   |                                                 |
| • maximum                                           | 10 A                                            |
| <b>Operating current at AC-15</b>                   |                                                 |
| • at 230 V rated value                              | 10 A                                            |
| • at 400 V rated value                              | 3 A                                             |
| • at 500 V rated value                              | 2 A                                             |
| • at 690 V rated value                              | 1 A                                             |
| <b>Operating current at DC-12</b>                   |                                                 |
| • at 24 V rated value                               | 10 A                                            |
| • at 48 V rated value                               | 6 A                                             |
| • at 60 V rated value                               | 6 A                                             |
| • at 110 V rated value                              | 3 A                                             |
| • at 125 V rated value                              | 2 A                                             |
| • at 220 V rated value                              | 1 A                                             |
| • at 600 V rated value                              | 0.15 A                                          |
| <b>Operating current at DC-13</b>                   |                                                 |
| • at 24 V rated value                               | 10 A                                            |
| • at 48 V rated value                               | 2 A                                             |
| • at 110 V rated value                              | 1 A                                             |
| • at 125 V rated value                              | 0.9 A                                           |
| • at 220 V rated value                              | 0.3 A                                           |
| • at 600 V rated value                              | 0.1 A                                           |
| <b>Contact reliability of auxiliary contacts</b>    | 1 faulty switching per 100 million (17 V, 1 mA) |

#### UL/CSA ratings

|                                                             |             |
|-------------------------------------------------------------|-------------|
| <b>Contact rating of auxiliary contacts according to UL</b> | A600 / Q600 |
|-------------------------------------------------------------|-------------|

#### Short-circuit protection

|                                                                                                                                                                                                                                                                                                                                                      |                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <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: 20 A (690 V, 100 kA)<br>fuse gG: 10 A |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|

| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <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>Mounting type</b> <ul style="list-style-type: none"> <li>• Side-by-side mounting</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715<br>Yes                                        |
| <b>Height</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 85 mm                                                                                                                                |
| <b>Width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 60 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>— 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>— 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>— upwards</li> <li>— downwards</li> <li>— at the side</li> </ul> </li> </ul> | 10 mm<br>10 mm<br>10 mm<br>0 mm<br><br>10 mm<br>10 mm<br>6 mm<br>10 mm<br><br>10 mm<br>10 mm<br>10 mm<br>6 mm                        |

| Connections/Terminals                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Type of 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>screw-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>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for main contacts</li> </ul> | 2x (1 ... 2.5 mm²), 2x (2.5 ... 10 mm²)<br>2x (1 ... 2,5 mm²), 2x (2,5 ... 10 mm²)<br>2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm²<br>2x (16 ... 12), 2x (14 ... 8) |

|                                                                   |                                                                       |
|-------------------------------------------------------------------|-----------------------------------------------------------------------|
| <b>Connectable conductor cross-section for main contacts</b>      |                                                                       |
| • solid                                                           | 1 ... 10 mm <sup>2</sup>                                              |
| • single or multi-stranded                                        | 1 ... 10 mm <sup>2</sup>                                              |
| • stranded                                                        | 1 ... 10 mm <sup>2</sup>                                              |
| • finely stranded with core end processing                        | 1 ... 10 mm <sup>2</sup>                                              |
| <b>Connectable conductor cross-section for auxiliary contacts</b> |                                                                       |
| • single or multi-stranded                                        | 0.5 ... 2.5 mm <sup>2</sup>                                           |
| • finely stranded with core end processing                        | 0.5 ... 2.5 mm <sup>2</sup>                                           |
| <b>Type of connectable conductor cross-sections</b>               |                                                                       |
| • for auxiliary contacts                                          |                                                                       |
| — single or multi-stranded                                        | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ) |
| — finely stranded with core end processing                        | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • at AWG conductors for auxiliary contacts                        | 2x (20 ... 16), 2x (18 ... 14)                                        |
| <b>AWG number as coded connectable conductor cross section</b>    |                                                                       |
| • for main contacts                                               | 16 ... 8                                                              |
| • for auxiliary contacts                                          | 20 ... 14                                                             |

#### Safety related data

|                                                                           |             |
|---------------------------------------------------------------------------|-------------|
| <b>Product function</b>                                                   |             |
| • Mirror contact acc. to IEC 60947-4-1                                    | Yes         |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 20 y        |
| <b>Protection against electrical shock</b>                                | finger-safe |

#### Certificates/approvals

| General Product Approval | EMC | Functional Safety/Safety of Machinery |
|--------------------------|-----|---------------------------------------|
|--------------------------|-----|---------------------------------------|



[Type Examination Certificate](#)

| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



[Type Test Certificates/Test Report](#)



| Marine / Shipping | other |
|-------------------|-------|
|-------------------|-------|



[Confirmation](#)



## Further information

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

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

### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2326-1AB00>

### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2326-1AB00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AB00>

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

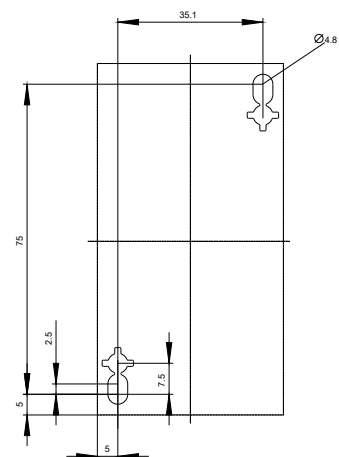
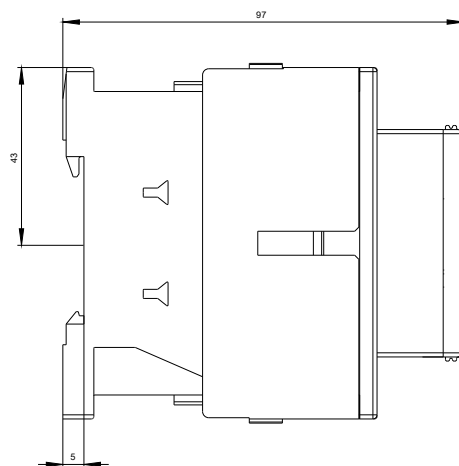
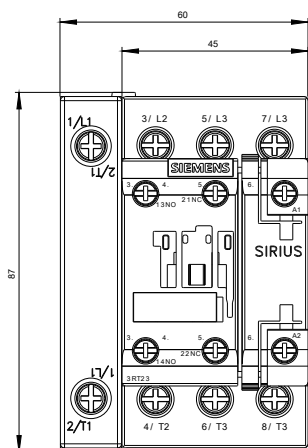
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2326-1AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2326-1AB00&lang=en)

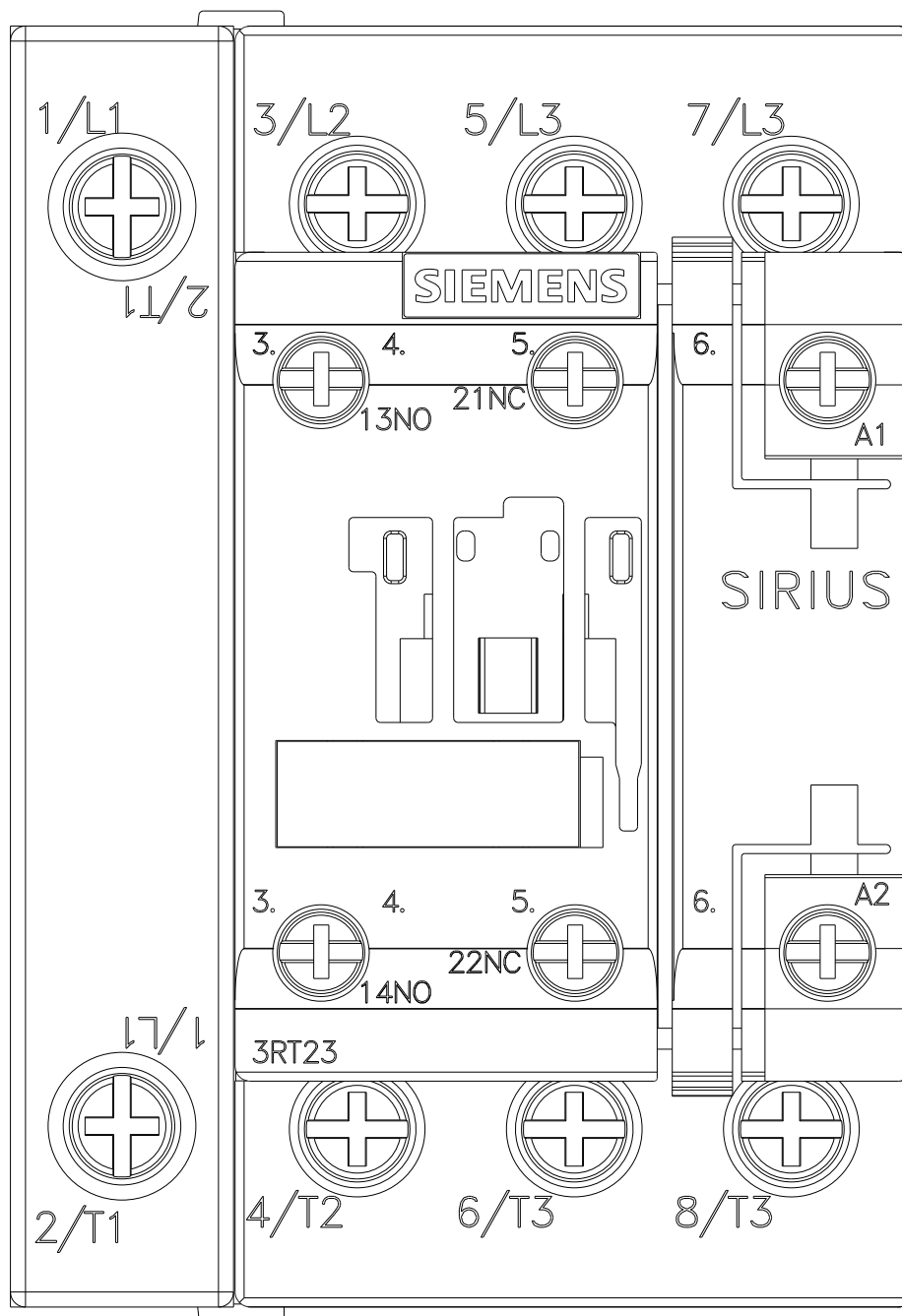
### Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

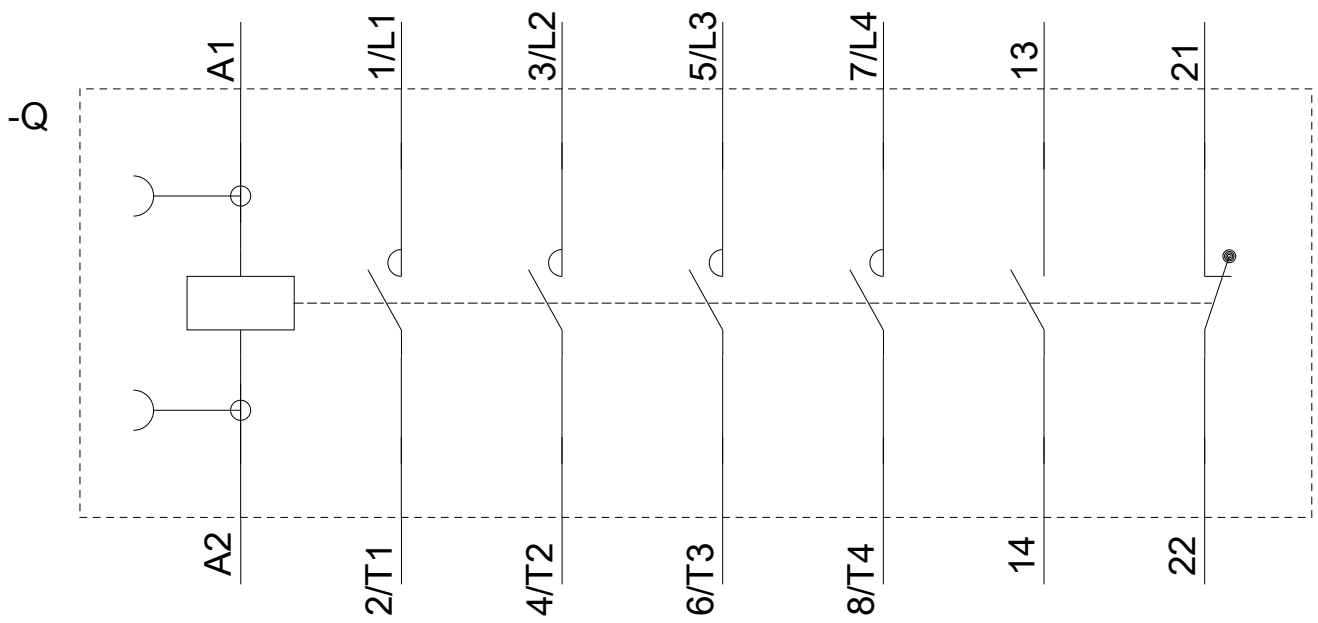
<https://support.industry.siemens.com/cs/ww/en/ps/3RT2326-1AB00/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2326-1AB00&objecttype=14&gridview=view1>







last modified:

11/12/2018