

CONTACTOR, AC-3, 18.5KW/400V, 1NO+1NC, AC 42V 50/60HZ 3-POLE, SZ S0, INDIA 40 A SCREW TERMINAL



Figure similar

|                                                     |                |
|-----------------------------------------------------|----------------|
| product brand name                                  | SIRIUS         |
| Product designation                                 | 3RT2 contactor |
| General technical data                              |                |
| Size of contactor                                   | S0             |
| Product extension                                   |                |
| • function module for communication                 | No             |
| • Auxiliary switch                                  | Yes            |
| Insulation voltage                                  |                |
| • rated value                                       | 690 V          |
| Degree of pollution                                 | 3              |
| Surge voltage resistance rated value                | 6 kV           |
| maximum permissible voltage for safe isolation      |                |
| • between coil and main contacts acc. to EN 60947-1 | 400 V          |
| Protection class IP                                 |                |
| • on the front                                      | IP20           |
| • of the terminal                                   | IP20           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| <b>Shock resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                  |
| <ul style="list-style-type: none"> <li>• at rectangular impulse <ul style="list-style-type: none"> <li>— at AC</li> </ul> </li> <li>• with sine pulse <ul style="list-style-type: none"> <li>— at AC</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                          | 8,3g / 5 ms, 5,3g / 10 ms<br><br>13,5g / 5 ms, 8,3g / 10 ms      |
| <b>Mechanical service life (switching cycles)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                  |
| <ul style="list-style-type: none"> <li>• of contactor typical</li> <li>• of the contactor with added electronics-compatible auxiliary switch block typical</li> <li>• of the contactor with added auxiliary switch block typical</li> </ul>                                                                                                                                                                                                                                                                                                                          | 10 000 000<br>5 000 000<br>10 000 000                            |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                  |
| <b>Installation altitude at height above sea level maximum</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2 000 m                                                          |
| <b>Ambient temperature</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                  |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -25 ... +50 °C<br>-55 ... +80 °C                                 |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                  |
| <b>Number of poles for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3                                                                |
| <b>Number of NO contacts for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3                                                                |
| <b>Number of NC contacts for main contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0                                                                |
| <b>Operating voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                  |
| <ul style="list-style-type: none"> <li>• at AC-3 rated value maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 690 V                                                            |
| <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 ambient temperature 40 °C rated value</li> </ul> </li> <li>• at AC-1 <ul style="list-style-type: none"> <li>— up to 690 V at ambient temperature 40 °C rated value</li> <li>— up to 690 V at ambient temperature 60 °C rated value</li> </ul> </li> <li>• at AC-2 at 400 V rated value</li> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 400 V rated value</li> <li>— at 500 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul> | 50 A<br><br>50 A<br>42 A<br><br>38 A<br><br>38 A<br>32 A<br>21 A |
| <b>Connectable conductor cross-section in main circuit at AC-1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                  |
| <ul style="list-style-type: none"> <li>• at 60 °C minimum permissible</li> <li>• at 40 °C minimum permissible</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                             | 10 mm <sup>2</sup><br>10 mm <sup>2</sup>                         |
| <b>Operating current for approx. 200000 operating cycles at AC-4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                  |

|                                                                                                                                                                                                                                                                                                             |                                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> </ul>                                                                                                                                                                                                                                    | 12 A                                     |
| <ul style="list-style-type: none"> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                                    | 12 A                                     |
| <b>Operating current</b>                                                                                                                                                                                                                                                                                    |                                          |
| <ul style="list-style-type: none"> <li>• at 1 current path at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul>                      | 35 A<br>4.5 A<br>1 A<br>0.4 A<br>0.25 A  |
| <ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul>         | 35 A<br>35 A<br>5 A<br>1 A<br>0.8 A      |
| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-1 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul>         | 35 A<br>35 A<br>35 A<br>2.9 A<br>1.4 A   |
| <b>Operating current</b>                                                                                                                                                                                                                                                                                    |                                          |
| <ul style="list-style-type: none"> <li>• at 1 current path at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 24 V rated value</li> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul>              | 20 A<br>2.5 A<br>1 A<br>0.09 A<br>0.06 A |
| <ul style="list-style-type: none"> <li>• with 2 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 24 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 15 A<br>3 A<br>35 A<br>0.27 A<br>0.16 A  |
| <ul style="list-style-type: none"> <li>• with 3 current paths in series at DC-3 at DC-5 <ul style="list-style-type: none"> <li>— at 110 V rated value</li> <li>— at 220 V rated value</li> <li>— at 24 V rated value</li> <li>— at 440 V rated value</li> <li>— at 600 V rated value</li> </ul> </li> </ul> | 35 A<br>10 A<br>35 A<br>0.6 A<br>0.6 A   |
| <b>Operating power</b>                                                                                                                                                                                                                                                                                      |                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC-1 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 230 V at 60 °C rated value</li> <li>— at 400 V rated value</li> <li>— at 400 V at 60 °C rated value</li> <li>— at 690 V rated value</li> <li>— at 690 V at 60 °C rated value</li> </ul> </li> <li>• at AC-2 at 400 V rated value</li> <li>• at AC-3 <ul style="list-style-type: none"> <li>— at 230 V rated value</li> <li>— at 400 V rated value</li> <li>— at 690 V rated value</li> </ul> </li> </ul> | 16 kW<br>15.5 kW<br>28 kW<br>27.5 kW<br>48 kW<br>47.5 kW<br>18.5 kW<br><br>11 kW<br>18.5 kW<br>18.5 kW |
| <b>Operating power for approx. 200000 operating cycles at AC-4</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 kW<br>10.3 kW                                                                                        |
| <b>Thermal short-time current limited to 10 s</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 304 A                                                                                                  |
| <b>Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor</b>                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3.8 W                                                                                                  |
| <b>No-load switching frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5 000 1/h                                                                                              |
| <b>Operating frequency</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at AC-1 maximum</li> <li>• at AC-2 maximum</li> <li>• at AC-3 maximum</li> <li>• at AC-4 maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                  | 1 000 1/h<br>750 1/h<br>750 1/h<br>250 1/h                                                             |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                        |
| <b>Type of voltage of the control supply voltage</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | AC                                                                                                     |
| <b>Control supply voltage at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              | 42 V<br>42 V                                                                                           |
| <b>Operating range factor control supply voltage rated value of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.8 ... 1.1<br>0.85 ... 1.1                                                                            |
| <b>Apparent pick-up power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 81 V·A<br>79 V·A                                                                                       |
| <b>Inductive power factor with closing power of the coil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                        |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.72<br>0.74                                                                                           |
| <b>Apparent holding power of magnet coil at AC</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                        |

|                                                                                                                                     |                     |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                    | 10.5 V·A<br>8.5 V·A |
| <b>Inductive power factor with the holding power of the coil</b>                                                                    |                     |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>                                                    | 0.25<br>0.28        |
| <b>Closing delay</b>                                                                                                                |                     |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                           | 8 ... 40 ms         |
| <b>Opening delay</b>                                                                                                                |                     |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                           | 4 ... 16 ms         |
| <b>Arcing time</b>                                                                                                                  | 10 ... 10 ms        |
| <b>Residual current of the electronics for control with signal &lt;0&gt;</b>                                                        |                     |
| <ul style="list-style-type: none"> <li>• at AC at 230 V maximum permissible</li> <li>• at DC at 24 V maximum permissible</li> </ul> | 7 mA<br>16 mA       |

#### Auxiliary circuit

|                                                                                                                                                                                                                                                                       |                                                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| <b>Number of NC contacts</b>                                                                                                                                                                                                                                          |                                                   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— instantaneous contact</li> </ul>                                                                                                                                                           | 1                                                 |
| <b>Number of NO contacts</b>                                                                                                                                                                                                                                          |                                                   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— instantaneous contact</li> </ul>                                                                                                                                                           | 1                                                 |
| Operating current at AC-12 maximum                                                                                                                                                                                                                                    | 10 A                                              |
| <b>Operating current at AC-15</b>                                                                                                                                                                                                                                     |                                                   |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>                                                                                              | 10 A<br>3 A<br>2 A<br>1 A                         |
| <b>Operating current at DC-12</b>                                                                                                                                                                                                                                     |                                                   |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> <li>• at 220 V rated value</li> <li>• at 600 V rated value</li> </ul> | 10 A<br>6 A<br>6 A<br>3 A<br>2 A<br>1 A<br>0.15 A |
| <b>Operating current at DC-13</b>                                                                                                                                                                                                                                     |                                                   |
| <ul style="list-style-type: none"> <li>• at 24 V rated value</li> <li>• at 48 V rated value</li> <li>• at 60 V rated value</li> <li>• at 110 V rated value</li> <li>• at 125 V rated value</li> </ul>                                                                 | 10 A<br>2 A<br>2 A<br>1 A<br>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>Full-load current (FLA) for three-phase AC motor</b>     |             |
| • at 480 V rated value                                      | 34 A        |
| • at 600 V rated value                                      | 27 A        |
| <b>Yielded mechanical performance [hp]</b>                  |             |
| • for single-phase AC motor                                 |             |
| — at 110/120 V rated value                                  | 3 hp        |
| — at 230 V rated value                                      | 5 hp        |
| • for three-phase AC motor                                  |             |
| — at 200/208 V rated value                                  | 10 hp       |
| — at 220/230 V rated value                                  | 10 hp       |
| — at 460/480 V rated value                                  | 25 hp       |
| — at 575/600 V rated value                                  | 25 hp       |
| <b>Contact rating of auxiliary contacts according to UL</b> | A600 / Q600 |

#### Short-circuit protection

|                                                                 |                                             |
|-----------------------------------------------------------------|---------------------------------------------|
| <b>Design of the fuse link</b>                                  |                                             |
| • for short-circuit protection of the main circuit              |                                             |
| — with type of coordination 1 required                          | gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A |
| — with type of assignment 2 required                            | gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 50 A  |
| • for short-circuit protection of the auxiliary switch required | fuse gL/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>         | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022                                               |
| • Side-by-side mounting      | Yes                                                                                                                                  |
| <b>Height</b>                | 85 mm                                                                                                                                |
| <b>Width</b>                 | 45 mm                                                                                                                                |
| <b>Depth</b>                 | 97 mm                                                                                                                                |
| <b>Required spacing</b>      |                                                                                                                                      |
| • with side-by-side mounting |                                                                                                                                      |
| — forwards                   | 0 mm                                                                                                                                 |
| — Backwards                  | 0 mm                                                                                                                                 |
| — upwards                    | 0 mm                                                                                                                                 |
| — downwards                  | 0 mm                                                                                                                                 |
| — at the side                | 10 mm                                                                                                                                |

- for grounded parts
  - forwards 0 mm
  - Backwards 0 mm
  - upwards 0 mm
  - at the side 10 mm
  - downwards 0 mm
- for live parts
  - forwards 0 mm
  - Backwards 0 mm
  - upwards 0 mm
  - downwards 0 mm
  - at the side 10 mm

## Connections/Terminals

|                                                     |                                                                                         |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------|
| <b>Type of electrical connection</b>                |                                                                                         |
| • for main current circuit                          | screw-type terminals                                                                    |
| • for auxiliary and control current circuit         | screw-type terminals                                                                    |
| <b>Type of connectable conductor cross-sections</b> |                                                                                         |
| • for main contacts                                 |                                                                                         |
| — solid                                             | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )                       |
| — single or multi-stranded                          | 2x (1 ... 2,5 mm <sup>2</sup> ), 2x (2,5 ... 10 mm <sup>2</sup> )                       |
| — finely stranded with core end processing          | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup> |
| • at AWG conductors for main contacts               | 2x (16 ... 12), 2x (14 ... 8)                                                           |
| <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)                                                          |

## Safety related data

|                                                                           |           |
|---------------------------------------------------------------------------|-----------|
| <b>B10 value</b>                                                          |           |
| • with high demand rate acc. to SN 31920                                  | 1 000 000 |
| <b>Proportion of dangerous failures</b>                                   |           |
| • with low demand rate acc. to SN 31920                                   | 40 %      |
| • with high demand rate acc. to SN 31920                                  | 73 %      |
| <b>Failure rate [FIT]</b>                                                 |           |
| • with low demand rate acc. to SN 31920                                   | 100 FIT   |
| <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      |

## Certificates/approvals

| General Product Approval                                                          |                                                                                   |                     |                                                                                   | Declaration of<br>Conformity                                                        | Test<br>Certificates                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------|
|  |  | <a href="#">KTL</a> |  |  | <a href="#">spezielle<br/>Prüfbescheinigunge<br/>n</a> |
| CSA                                                                               | UL                                                                                |                     |                                                                                   | EG-Konf.                                                                            |                                                        |

| Shipping Approval                                                                 |                                                                                   |                                                                                   |                                                                                   |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| ABS                                                                               | BUREAU<br>VERITAS                                                                 | DNV                                                                               | GL                                                                                | LRS                                                                                 | PRS                                                                                 |

| Shipping Approval                                                                 | other                                                                             |                                   |                               |                                                                                     |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------|-------------------------------|-------------------------------------------------------------------------------------|--|
|  |  | <a href="#">Umweltbestätigung</a> | <a href="#">Bestätigungen</a> |  |  |
| RINA                                                                              | RMRS                                                                              |                                   |                               | VDE                                                                                 |  |

#### 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=3RT2028-1AD20-0JA0>

Cax online generator

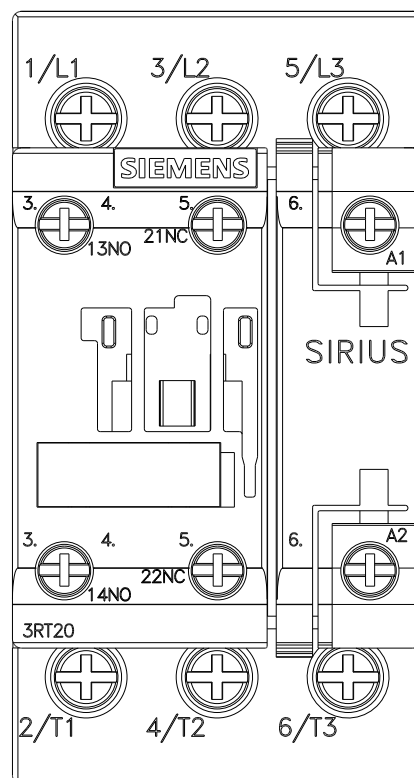
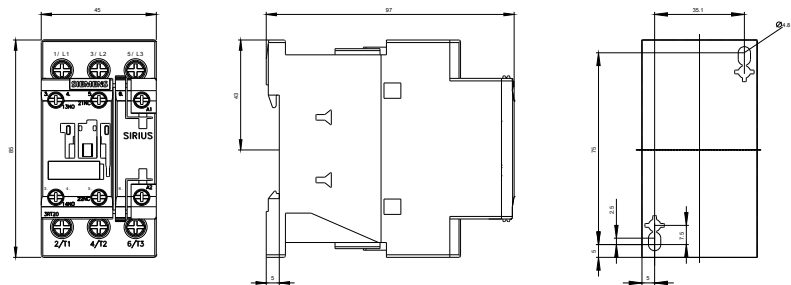
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2028-1AD20-0JA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT2028-1AD20-0JA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT2028-1AD20-0JA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2028-1AD20-0JA0&lang=en)



last modified:

10/07/2016