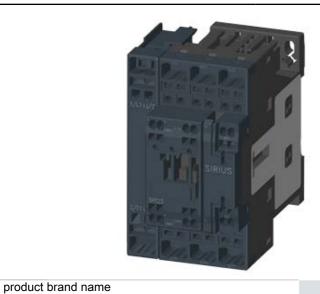
# **SIEMENS**

Data sheet 3RT2327-2AP60



4NO CONTACTOR, AC1: 50A AC 220V 50HZ, 240V 60HZ 4-POLE, 4NO, SZ: S0, SPRING-LOADED TERMINAL 1NO+1NC INTEGR.

| product brana name   |    |                |
|--|----|----------------|
| Product designation  |    | 3RT2 contactor |
| General technical data:  |    |                |
| Insulation voltage   |    |                |
| Rated value  | V  | 690            |
| Degree of pollution  |    | 3              |
| Surge voltage resistance Rated value                             | kV | 6              |
| Mechanical service life (switching cycles)                       |    |                |
| of the contactor typical   |    | 10 000 000     |
| <ul> <li>of the contactor with added electronics-</li> </ul>     |    | 5 000 000      |
| compatible auxiliary switch block typical                        |    |                |
| <ul> <li>of the contactor with added auxiliary switch</li> </ul> |    | 10 000 000     |
| block typical  |    |                |
| Thermal short-time current restricted to 10 s                    | Α  | 260            |
| Protection class IP  |    |                |
| • on the front   |    | IP20           |
| • of the terminal  |    | IP20           |
| Equipment marking  |    |                |
| • acc. to DIN EN 61346-2   |    | Q              |
| ● acc. to DIN EN 81346-2   |    | Q              |
| Main circuit:  |    |                |
| Number of poles for main current circuit                         |    | 4              |
| Number of NC contacts for main contacts                          |    | 0              |
| Number of NO contacts for main contacts                          |    | 4              |

**SIRIUS** 

Operating voltage

| <ul> <li>at AC-3 Rated value maximum</li> </ul>                        | V | 690  |
|--|---|------|
| Operating current  |   |      |
| • at AC-1  |   |      |
| — at 400 V at ambient temperature 40 °C<br>Rated value                 | Α | 50   |
| — up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ Rated value | Α | 50   |
| — up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ Rated value | Α | 42   |
| • at AC-2 at 400 V Rated value   | Α | 17   |
| • at AC-3  |   |      |
| — at 400 V Rated value   | Α | 15.5 |
| • at AC-4 at 400 V Rated value   | Α | 15.5 |
| Operating current with 1 current path                                  |   |      |
| • at DC-1  |   |      |
| — at 24 V Rated value  | Α | 35   |
| — at 110 V Rated value   | Α | 4.5  |
| — at 220 V Rated value   | Α | 1    |
| — at 440 V Rated value   | Α | 0.4  |
| • at DC-3 at DC-5  |   |      |
| — at 24 V Rated value  | Α | 20   |
| — at 110 V Rated value   | Α | 2.5  |
| — at 220 V Rated value   | Α | 1    |
| — at 440 V Rated value   | Α | 0.09 |
| Operating current with 2 current paths in series                       |   |      |
| • at DC-1  |   |      |
| — at 24 V Rated value  | Α | 35   |
| — at 110 V Rated value   | Α | 35   |
| — at 220 V Rated value   | Α | 1    |
| — at 440 V Rated value   | Α | 1    |
| • at DC-3 at DC-5  |   |      |
| — at 110 V Rated value   | Α | 15   |
| — at 220 V Rated value   | Α | 3    |
| — at 24 V Rated value  | Α | 35   |
| — at 440 V Rated value   | Α | 0.27 |
| Operating current with 3 current paths in series                       |   |      |
| • at DC-1  |   |      |
| — at 24 V Rated value  | Α | 35   |
| — at 110 V Rated value   | Α | 35   |
| — at 220 V Rated value   | Α | 42   |
| — at 440 V Rated value   | Α | 2.9  |
| • at DC-3 at DC-5  |   |      |

| — at 110 V Rated value   | Α      | 35       |
|--|--------|----------|
| — at 220 V Rated value   | Α      | 10       |
| — at 24 V Rated value  | Α      | 35       |
| — at 440 V Rated value   | Α      | 0.6      |
| Operating power  |        |          |
| • at AC-1 at 400 V Rated value   | kW     | 28       |
| • at AC-2 at 400 V Rated value   | kW     | 9        |
| • at AC-4 at 400 V Rated value   | kW     | 7.5      |
| Operating power  |        |          |
| • at AC-1  |        |          |
| — at 230 V at 60 °C Rated value  | kW     | 16       |
| — at 230 V Rated value   | kW     | 28       |
| — at 400 V at 60 °C Rated value  | kW     | 28       |
| ● at AC-3  |        |          |
| — at 230 V Rated value   | kW     | 4        |
| — at 400 V Rated value   | kW     | 7.5      |
| Operating frequency  |        |          |
| • at AC-3 maximum  | 1/h    | 750      |
|  |        |          |
| Control circuit/ Control:  |        |          |
| Type of voltage of the control supply voltage  |        | AC       |
| Control supply voltage with AC   |        | 999      |
| • at 50 Hz Rated value   | V      | 220      |
| at 60 Hz Rated value   | V      | 240      |
| Operating range factor control supply voltage rated value of the magnet coil with AC |        |          |
| ● at 50 Hz   |        | 0.8 1.1  |
| ● at 60 Hz   |        | 0.85 1.1 |
| Auxiliary circuit:   |        |          |
| Number of NC contacts  |        |          |
| for auxiliary contacts   |        |          |
| — instantaneous contact  |        | 1        |
| Number of NO contacts  |        |          |
| for auxiliary contacts   |        |          |
| — instantaneous contact  |        | 1        |
| Product expansion Auxiliary switch   |        | Yes      |
| Operating current at AC-15   |        |          |
| operating current at AO-10   |        |          |
| • at 230 V Rated value   | A      | 10       |
|  | A<br>A | 10<br>3  |
| at 230 V Rated value   |        |          |
| <ul><li>at 230 V Rated value</li><li>at 400 V Rated value</li></ul>                  | Α      | 3        |

| • at DC-12 at 220 V Rated value               | Α | 1   |
|---|---|---|
| • at DC-12 at 600 V Rated value               | Α | 0.15  |
| • at DC-13 at 125 V Rated value               | Α | 0.9   |
| • at DC-13 at 220 V Rated value               | Α | 0.3   |
| • at DC-13 at 600 V Rated value               | Α | 0.1   |
| Operating current                             |   |   |
| • at DC-12                                    |   |   |
| — at 60 V Rated value                         | Α | 6   |
| — at 110 V Rated value                        | Α | 3   |
| ● at DC-13                                    |   |   |
| — at 24 V Rated value                         | Α | 10  |
| — at 60 V Rated value                         | Α | 2   |
| — at 110 V Rated value                        | Α | 1   |
| Contact reliability of the auxiliary contacts |   | 1 faulty switching per 100 million (17 V, 1 mA) |

| UL/CSA ratings:  |              |             |
|--|--------------|-------------|
| Full-load current (FLA) for three-phase AC motor                             |              |             |
| ● at 480 V Rated value   | Α            | 14          |
| ● at 600 V Rated value   | Α            | 17          |
| yielded mechanical performance [hp]  |              |             |
| <ul> <li>• for single-phase AC motor at 110/120 V Rated<br/>value</li> </ul> | metric<br>hp | 1           |
| <ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>           | metric<br>hp | 3           |
| <ul> <li>• for three-phase AC motor at 200/208 V Rated<br/>value</li> </ul>  | metric<br>hp | 3           |
| <ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>        | metric<br>hp | 5           |
| <ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>        | metric<br>hp | 10          |
| <ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>        | metric<br>hp | 15          |
| Contact rating of the auxiliary contacts acc. to UL                          |              | A600 / Q600 |

| Short-circuit:  |                      |                              |
|---|----------------------|------------------------------|
| Design of the fuse link   |                      |                              |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>                  |                      |                              |
| <ul> <li>— with type of assignment 1 required</li> </ul>                              | gL/gG LV HRC<br>63 A | 3NA, DIAZED 5SB, NEOZED 5SE: |
| — with type of assignment 2 required  | gL/gG LV HRC<br>25 A | 3NA, DIAZED 5SB, NEOZED 5SE: |
| <ul> <li>for short-circuit protection of the auxiliary switch<br/>required</li> </ul> | fuse gL/gG: 10 /     | A                            |

## Installation/ mounting/ dimensions:

| mounting position   |    | +/-180° rotation possible on vertical mounting   |
|---|----|--|
|   |    | surface; can be tilted forward and backward by +/-                                     |
|   |    | 22.5° on vertical mounting surface   |
| Mounting type   |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <ul> <li>Side-by-side mounting</li> </ul>                       |    | Yes  |
| Height  | mm | 85   |
| Width   | mm | 61   |
| Depth   | mm | 97   |
| Required spacing  |    |  |
| <ul><li>with side-by-side mounting</li></ul>                    |    |  |
| — forwards  | mm | 0  |
| — Backwards   | mm | 0  |
| — upwards   | mm | 0  |
| — downwards   | mm | 0  |
| — at the side   | mm | 0  |
| <ul><li>for grounded parts</li></ul>                            |    |  |
| — forwards  | mm | 0  |
| — Backwards   | mm | 0  |
| — upwards   | mm | 0  |
| — at the side   | mm | 6  |
| — downwards   | mm | 0  |
| • for live parts  |    |  |
| — forwards  | mm | 0  |
| — Backwards   | mm | 0  |
| — upwards   | mm | 0  |
| — downwards   | mm | 0  |
| — at the side   | mm | 6  |
| Connections/ Terminals:   |    |  |
| Type of electrical connection                                   |    |  |
| for main current circuit  |    | spring-loaded terminals  |
| <ul> <li>for auxiliary and control current circuit</li> </ul>   |    | spring-loaded terminals  |
| Type of connectable conductor cross-section                     |    |  |
| • for main contacts   |    |  |
| <ul><li>— single or multi-stranded</li></ul>                    |    | 2x (1 10 mm²)  |
| <ul> <li>finely stranded with core end processing</li> </ul>    |    | 2x (1 6 mm²)   |
| <ul> <li>finely stranded without core end processing</li> </ul> |    | 2x (1 6 mm²)   |
| <ul> <li>for AWG conductors for main contacts</li> </ul>        |    | 2x (18 8)  |
| for auxiliary contacts  |    |  |
| ior durantally contacte   |    |  |
| — single or multi-stranded                                      |    | 2x (0,5 2,5 mm²)   |

| <ul> <li>finely stranded without core end</li> </ul> |     | 2x (0.5 2.5 mm²) |
|--|-----|------------------|
| processing   |     | ,                |
| • for AWG conductors for auxiliary contacts          |     | 2x (20 14)       |
| Apparent pick-up power of the magnet coil with AC    |     |                  |
| ● at 50 Hz   | V·A | 81               |
| ● at 60 Hz   | V·A | 79               |
| Safety related data:                                 |     |                  |
| B10 value with high demand rate acc. to SN 31920     |     | 1 000 000        |
| Droportion of dongorous foilures                     |     |                  |

| Safety related data:   |     |             |
|--|-----|-------------|
| B10 value with high demand rate acc. to SN 31920                   |     | 1 000 000   |
| Proportion of dangerous failures                                   |     |             |
| <ul> <li>with low demand rate acc. to SN 31920</li> </ul>          | %   | 40          |
| <ul> <li>with high demand rate acc. to SN 31920</li> </ul>         | %   | 73          |
| Failure rate [FIT] with low demand rate acc. to SN 31920           | FIT | 100         |
| Product function Mirror contact acc. to IEC 60947-4-1              |     | Yes         |
| T1 value for proof test interval or service life acc. to IEC 61508 | У   | 20          |
| Protection against electrical shock                                |     | finger-safe |

| Mechanical data:                                |   |       |
|---|---|-------|
| Size of contactor                               |   | S0    |
| Ambient conditions:                             |   |       |
| Installation altitude at height above sea level | m | 2 000 |

| Installation altitude at height above sea level | m  | 2 000           |
|---|----|-----------------|
| maximum   |    |                 |
| Ambient temperature                             |    |                 |
| <ul><li>during operation</li></ul>              | °C | -25 +60         |
| during storage                                  | °C | -55 <b>+</b> 80 |

### Certificates/ approvals:

#### **General Product Approval**

**EMC** 

Functional Safety/Safety of Machinery











Type Examination

| Declaration o | f |
|---------------|---|
| Conformity    |   |

**Test Certificates** 

**Shipping Approval** 



Type Test
Certificates/Test
Report

Special Test Certificate







#### **Shipping Approval**

other





LRS







Confirmation

GL

#### 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/industrymall

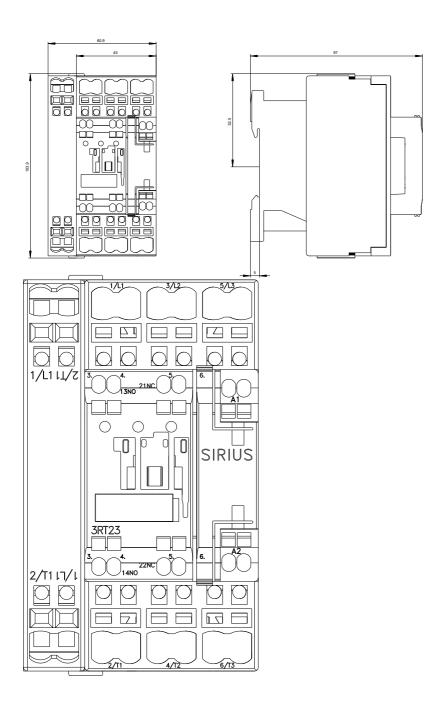
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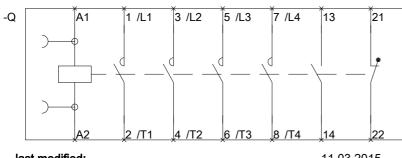
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RT23272AP60/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT23272AP60&lang=en





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