

power contactor, AC-3 17 A, 7.5 kW / 400 V 1 NO + 1 NC, AC (50-60 Hz) DC operation 21-28 V AC/DC, 3-pole, Size S0, screw terminal



|                          |                 |
|--------------------------|-----------------|
| Product brand name       | SIRIUS          |
| Product designation      | Power contactor |
| Product type designation | 3RT2            |

| General technical data                                                                              |                           |
|-----------------------------------------------------------------------------------------------------|---------------------------|
| Size of contactor                                                                                   | S0                        |
| Product extension                                                                                   |                           |
| <ul style="list-style-type: none"> <li>function module for communication</li> </ul>                 | No                        |
| <ul style="list-style-type: none"> <li>Auxiliary switch</li> </ul>                                  | Yes                       |
| Surge voltage resistance                                                                            |                           |
| <ul style="list-style-type: none"> <li>of main circuit rated value</li> </ul>                       | 6 kV                      |
| <ul style="list-style-type: none"> <li>of auxiliary circuit rated value</li> </ul>                  | 6 kV                      |
| maximum permissible voltage for safe isolation                                                      |                           |
| <ul style="list-style-type: none"> <li>between coil and main contacts acc. to EN 60947-1</li> </ul> | 400 V                     |
| Protection class IP                                                                                 |                           |
| <ul style="list-style-type: none"> <li>on the front</li> </ul>                                      | IP20                      |
| <ul style="list-style-type: none"> <li>of the terminal</li> </ul>                                   | IP20                      |
| Shock resistance at rectangular impulse                                                             |                           |
| <ul style="list-style-type: none"> <li>at AC</li> </ul>                                             | 7,5g / 5 ms, 4,7g / 10 ms |

|                                                                                                                                       |                            |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                             | 10g / 5 ms, 7,5g / 10 ms   |
| <b>Shock resistance with sine pulse</b>                                                                                               |                            |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                                                             | 11,8g / 5 ms, 7,4g / 10 ms |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul>                                                                             | 15g / 5 ms, 10g / 10 ms    |
| <b>Mechanical service life (switching cycles)</b>                                                                                     |                            |
| <ul style="list-style-type: none"> <li>• of contactor typical</li> </ul>                                                              | 10 000 000                 |
| <ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block typical</li> </ul> | 5 000 000                  |
| <ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block typical</li> </ul>                        | 10 000 000                 |
| <b>Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750</b>                                               | K                          |
| <b>Reference code acc. to DIN EN 81346-2</b>                                                                                          | Q                          |

### Ambient conditions

|                                                                      |                |
|----------------------------------------------------------------------|----------------|
| <b>Installation altitude at height above sea level</b>               |                |
| <ul style="list-style-type: none"> <li>• maximum</li> </ul>          | 2 000 m        |
| <b>Ambient temperature</b>                                           |                |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul> | -25 ... +60 °C |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | -55 ... +80 °C |

### Main circuit

|                                                                                                                                                                                                                                       |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>Number of poles for main current circuit</b>                                                                                                                                                                                       | 3                    |
| <b>Number of NO contacts for main contacts</b>                                                                                                                                                                                        | 3                    |
| <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> </ul>                                                                    | 40 A                 |
| <ul style="list-style-type: none"> <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> </ul> | 40 A<br>35 A         |
| <ul style="list-style-type: none"> <li>• at AC-2 at 400 V rated value</li> </ul>                                                                                                                                                      | 17 A                 |
| <ul style="list-style-type: none"> <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>                                 | 17 A<br>17 A<br>13 A |
| <ul style="list-style-type: none"> <li>• at AC-4 at 400 V rated value</li> </ul>                                                                                                                                                      | 15.5 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> </ul>                                                                                                                                                      | 10 mm <sup>2</sup>   |
| <ul style="list-style-type: none"> <li>• at 40 °C minimum permissible</li> </ul>                                                                                                                                                      | 10 mm <sup>2</sup>   |