

power contactor, AC-3 80 A, 37 kW / 400 V 1 NO + 1 NC, 84-155 V  
AC/DC 3-pole, 3 NO, Size S3 screw terminal integrated varistor



Figure similar

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

| General technical data                                                                              |       |
|-----------------------------------------------------------------------------------------------------|-------|
| Size of contactor                                                                                   | S3    |
| 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>                       | 8 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> | 690 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>                                   | IP00  |

|                                                                                         |                              |
|-----------------------------------------------------------------------------------------|------------------------------|
| <b>Shock resistance at rectangular impulse</b>                                          |                              |
| • at AC                                                                                 | 6.7 g / 5 ms, 4.0 g / 10 ms  |
| • at DC                                                                                 | 6.7 g / 5 ms, 4.0 g / 10 ms  |
| <b>Shock resistance with sine pulse</b>                                                 |                              |
| • at AC                                                                                 | 10.6 g / 5 ms, 6.3 g / 10 ms |
| • at DC                                                                                 | 10.6 g / 5 ms, 6.3 g / 10 ms |
| <b>Mechanical service life (switching cycles)</b>                                       |                              |
| • of contactor typical                                                                  | 10 000 000                   |
| • of the contactor with added electronics-compatible auxiliary switch block typical     | 5 000 000                    |
| • of the contactor with added auxiliary switch block typical                            | 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> |                |
| • 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>                    | 3       |
| <b>Number of NO contacts for main contacts</b>                     | 3       |
| <b>Operating voltage</b>                                           |         |
| • at AC-3 rated value maximum                                      | 1 000 V |
| <b>Operating current</b>                                           |         |
| • at AC-1 at 400 V                                                 |         |
| — at ambient temperature 40 °C rated value                         | 125 A   |
| • at AC-1                                                          |         |
| — up to 690 V at ambient temperature 40 °C rated value             | 125 A   |
| — up to 690 V at ambient temperature 60 °C rated value             | 105 A   |
| • at AC-2 at 400 V rated value                                     | 80 A    |
| • at AC-3                                                          |         |
| — at 400 V rated value                                             | 80 A    |
| — at 500 V rated value                                             | 80 A    |
| — at 690 V rated value                                             | 58 A    |
| • at AC-4 at 400 V rated value                                     | 66 A    |
| <b>Connectable conductor cross-section in main circuit at AC-1</b> |         |