

|  |                            |
|--|----------------------------|
| Product brand name                         | SIRIUS                     |
| Product designation                        | Contacteur relay           |
| Product type designation                   | 3RH6                       |
| <b>General technical data</b>              |                            |
| Size of contactor                          | S00                        |
| Product extension                          |                            |
| • Auxiliary switch                         | Yes                        |
| Insulation voltage                         |                            |
| • with degree of pollution 3 rated value   | 690 V                      |
| Surge voltage resistance rated value       | 6 kV                       |
| Protection class IP                        |                            |
| • on the front                             | IP20                       |
| Shock resistance at rectangular impulse    |                            |
| • at AC                                    | 7,3g / 5 ms, 4,7g / 10 ms  |
| Shock resistance with sine pulse           |                            |
| • at AC                                    | 11,4g / 5 ms, 7,3g / 10 ms |
| Mechanical service life (switching cycles) |                            |
| • of contactor typical                     | 30 000 000                 |

|  |            |
|--|------------|
| • of the contactor with added auxiliary switch block typical | 10 000 000 |
|--|------------|

#### Ambient conditions

|   |                |
|---|----------------|
| Installation altitude at height above sea level |                |
| • maximum                                       | 2 000 m        |
| Ambient temperature                             |                |
| • during operation                              | -25 ... +60 °C |
| • during storage                                | -55 ... +80 °C |

#### Main circuit

|                             |            |
|-----------------------------|------------|
| No-load switching frequency |            |
| • at AC                     | 10 000 1/h |
| • at DC                     | 10 000 1/h |

#### Control circuit/ Control

|  |              |
|--|--------------|
| Type of voltage of the control supply voltage                                  | AC           |
| Control supply voltage at AC   |              |
| • at 50 Hz rated value   | 48 V         |
| • at 60 Hz rated value   | 48 V         |
| Operating range factor control supply voltage rated value of magnet coil at AC |              |
| • at 50 Hz   | 0.8 ... 1.1  |
| • at 60 Hz   | 0.85 ... 1.1 |
| Apparent pick-up power of magnet coil at AC                                    | 37 V·A       |
| Inductive power factor with closing power of the coil                          | 0.8          |
| Apparent holding power of magnet coil at AC                                    | 5.7 V·A      |
| Inductive power factor with the holding power of the coil                      | 0.25         |

#### Auxiliary circuit

|   |      |
|---|------|
| Number of NC contacts for auxiliary contacts            | 2    |
| Number of NO contacts for auxiliary contacts            | 2    |
| Identification number and letter for switching elements | 22 E |
| Operating current at AC-12 maximum                      | 6 A  |
| Operating current at AC-15                              |      |
| • at 230 V rated value                                  | 10 A |
| • at 400 V rated value                                  | 3 A  |
| • at 690 V rated value                                  | 1 A  |
| Operating current at 1 current path at DC-12            |      |
| • at 24 V rated value                                   | 6 A  |
| • at 110 V rated value                                  | 3 A  |
| • at 220 V rated value                                  | 1 A  |

|   |  |
|---|--|
| Operating current with 2 current paths in series at DC-12           |  |
| • at 24 V rated value   | 6 A  |
| • at 110 V rated value  | 4 A  |
| • at 220 V rated value  | 2 A  |
| Operating current with 3 current paths in series at DC-12           |  |
| • at 24 V rated value   | 6 A  |
| • at 110 V rated value  | 6 A  |
| • at 220 V rated value  | 3.6 A  |
| Operating frequency at DC-12 maximum                                | 1 000 1/h  |
| Operating current at 1 current path at DC-13                        |  |
| • at 24 V rated value   | 6 A  |
| • at 110 V rated value  | 1 A  |
| • at 220 V rated value  | 0.3 A  |
| Operating current with 2 current paths in series at DC-13           |  |
| • at 24 V rated value   | 6 A  |
| • at 110 V rated value  | 1.3 A  |
| • at 220 V rated value  | 0.9 A  |
| Operating current with 3 current paths in series at DC-13           |  |
| • at 24 V rated value   | 6 A  |
| • at 110 V rated value  | 3 A  |
| • at 220 V rated value  | 1.2 A  |
| Operating frequency at DC-13 maximum                                | 1 000 1/h  |
| Design of the miniature circuit breaker                             |  |
| • for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 6 A; 0.4 kA  |
| Contact reliability of auxiliary contacts                           | 1 faulty switching per 100 million (17 V, 1 mA)  |
| <b>Short-circuit protection</b>                                     |  |
| Design of the fuse link   |  |
| • for short-circuit protection of the auxiliary switch required     | fuse gL/gG: 10 A   |
| <b>Installation/ mounting/ dimensions</b>                           |  |
| • (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   |
| (height)  | 57.5 mm  |
| Width   | 45 mm  |
| Depth   | 73 mm  |

| Connections/Terminals  |   |
|--|---|
| <b>Type of electrical connection</b> <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>   | screw-type terminals  |
| <b>Type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for auxiliary contacts</li> </ul> | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br>2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| Safety related data  |   |
| <b>Product function</b> <ul style="list-style-type: none"> <li>• positively driven operation acc. to IEC 60947-5-1</li> </ul>  | Yes   |

