



Selector switch, illuminable, 22 mm, round, plastic, red, selector switch, short, 3 switch positions I-O<II, left latching, right momentary contact type, actuating angle 2x45°, 10:30h/12h/13:30h, with laser labeling, lower case

|                                                    |                                                                                            |
|----------------------------------------------------|--------------------------------------------------------------------------------------------|
| product brand name                                 | SIRIUS ACT                                                                                 |
| product designation                                | Selector switches                                                                          |
| design of the product                              | Actuating/signaling element                                                                |
| product type designation                           | 3SU1                                                                                       |
| product line                                       | Plastic, black, 22 mm                                                                      |
| <b>Enclosure</b>                                   |                                                                                            |
| number of command points                           | 1                                                                                          |
| <b>Actuator</b>                                    |                                                                                            |
| design of the actuating element                    | Selector, short                                                                            |
| principle of operation of the actuating element    | latching/momentary contact, 2x45° (10:30 h/12 h/13:30 h), return from right, left latching |
| product extension optional                         |                                                                                            |
| • light source                                     | Yes                                                                                        |
| • contact module                                   | Yes                                                                                        |
| color of the actuating element                     | red                                                                                        |
| material of the actuating element                  | plastic                                                                                    |
| shape of the actuating element                     | Handle                                                                                     |
| outer diameter of the actuating element            | 32.3 mm                                                                                    |
| marking of the actuating element                   | Customized labeling, text in lower case letters                                            |
| number of switching positions                      | 3                                                                                          |
| actuating angle                                    |                                                                                            |
| • clockwise                                        | 45°                                                                                        |
| • anticlockwise                                    | 45°                                                                                        |
| <b>Front ring</b>                                  |                                                                                            |
| product component front ring                       | Yes                                                                                        |
| design of the front ring                           | standard                                                                                   |
| material of the front ring                         | plastic                                                                                    |
| color of the front ring                            | black                                                                                      |
| <b>General technical data</b>                      |                                                                                            |
| protection class IP                                | IP66, IP67, IP69(IP69K)                                                                    |
| degree of protection NEMA rating                   | 1, 2, 3, 3R, 4, 4X, 12, 13                                                                 |
| shock resistance                                   |                                                                                            |
| • according to IEC 60068-2-27                      | sinusoidal half-wave 15g / 11 ms                                                           |
| • for railway applications according to EN 61373   | Category 1, Class B                                                                        |
| vibration resistance                               |                                                                                            |
| • according to IEC 60068-2-6                       | 10 ... 500 Hz: 5g                                                                          |
| • for railway applications according to EN 61373   | Category 1, Class B                                                                        |
| operating frequency maximum                        | 1 800 1/h                                                                                  |
| mechanical service life (operating cycles) typical | 1 000 000                                                                                  |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| reference code according to IEC 81346-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | S                                                                  |
| Substance Prohibittance (Date)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 10/01/2014                                                         |
| Net Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.023 kg                                                           |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                    |
| <b>proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate per NC contact according to SN 31920</li> <li>• with high demand rate per NO contact according to SN 31920</li> </ul>                                                                                                                                                                                                                                                                                      | 20 %<br>20 %<br>50 %                                               |
| <b>B10 value with high demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 300 000                                                            |
| <b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100 FIT                                                            |
| IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |
| T1 value for proof test interval or service life according to IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20 a                                                               |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |
| <b>ambient temperature</b> <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                               | -25 ... +70 °C<br>-40 ... +80 °C                                   |
| environmental category during operation according to IEC 60721                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |
| <b>Environmental footprint</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                    |
| Environmental Product Declaration (EPD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Yes                                                                |
| global warming potential [CO2 eq] total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.787 kg                                                           |
| global warming potential [CO2 eq] during manufacturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.566 kg                                                           |
| global warming potential [CO2 eq] during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.235 kg                                                           |
| global warming potential [CO2 eq] after end of life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -0.015 kg                                                          |
| Siemens Eco Profile (SEP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Siemens EcoTech                                                    |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 32.3 mm                                                            |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 32.3 mm                                                            |
| shape of the installation opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | round                                                              |
| mounting diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 22.3 mm                                                            |
| positive tolerance of installation diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.4 mm                                                             |
| mounting height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 28.8 mm                                                            |
| installation width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 32.3 mm                                                            |
| installation depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 25.4 mm                                                            |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |
| <div> <div>General Product Approval</div> <div>     </div> </div> <div> <div>Test Certificates</div> <div> <a href="#">Type Test Certificates/Test Report</a> <a href="#">Special Test Certificate</a> </div> </div>        |                                                                    |
| <div> <div>Maritime application</div> <div>     </div> </div> <div> <div>other</div> <div> <a href="#">Confirmation</a>  </div> </div> |                                                                    |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |
| <div>   </div> <div> <a href="#">Environmental Confirmations</a> </div>                                                                                                                                                                                                                                                                                                                           |                                                                    |

#### Further information

**Information on the packaging**

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<https://www.siemens.com/ic10>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1002-2BN20-0AA0-Z Y12>

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1002-2BN20-0AA0-Z Y12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1002-2BN20-0AA0-Z Y12>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1002-2BN20-0AA0-Z Y12&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1002-2BN20-0AA0-Z Y12&lang=en)

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