



Mushroom pushbutton, 22 mm, round, plastic, black, 40 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch, Z=50-unit packaging

|   |                                  |
|---|----------------------------------|
| product brand name                                    | SIRIUS ACT                       |
| product designation                                   | Mushroom pushbuttons             |
| 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                       | positive latching                |
| principle of operation of the actuating element       | latching                         |
| product extension optional light source               | No                               |
| color of the actuating element                        | black                            |
| material of the actuating element                     | plastic                          |
| shape of the actuating element                        | round                            |
| outer diameter of the actuating element               | 40 mm                            |
| type of unlocking device                              | rotate-to-unlatch mechanism      |
| number of switching positions                         | 2                                |
| <b>Front ring</b>                                     |                                  |
| product component front ring                          | No                               |
| design of the front ring                              | without                          |
| <b>General technical data</b>                         |                                  |
| product function                                      |                                  |
| • EMERGENCY OFF function                              | No                               |
| • EMERGENCY STOP function                             | No                               |
| 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                           | 600 1/h                          |
| mechanical service life (switching cycles) typical    | 300 000                          |
| reference code according to IEC 81346-2               | S                                |
| Substance Prohibitance (Date)                         | 10/01/2014                       |
| <b>Safety related data</b>                            |                                  |
| B10 value with high demand rate according to SN 31920 | 100 000                          |
| proportion of dangerous failures                      |                                  |

|   |         |
|---|---------|
| <ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> </ul>  | 20 %    |
| <ul style="list-style-type: none"> <li>with high demand rate according to SN 31920</li> </ul> | 20 %    |
| failure rate [FIT] with low demand rate according to SN 31920                                 | 100 FIT |

#### Ambient conditions

|  |  |
|--|--|
| <b>ambient temperature</b>   |  |
| <ul style="list-style-type: none"> <li>during operation</li> </ul> | -25 ... +70 °C   |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>   | -40 ... +80 °C   |
| environmental category during operation according to IEC 60721     | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |

#### Installation/ mounting/ dimensions

|  |         |
|--|---------|
| <b>height</b>                                      | 40 mm   |
| <b>width</b>                                       | 40 mm   |
| <b>shape of the installation opening</b>           | round   |
| <b>mounting diameter</b>                           | 22.3 mm |
| <b>positive tolerance of installation diameter</b> | 0.4 mm  |
| <b>mounting height</b>                             | 45.3 mm |
| <b>installation width</b>                          | 40 mm   |
| <b>installation depth</b>                          | 26.3 mm |

#### Certificates/ approvals

#### Further information

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=3SU1000-1HB10-0AA0-Z X90>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1HB10-0AA0-Z X90>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1HB10-0AA0-Z X90>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1000-1HB10-0AA0-Z X90&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-1HB10-0AA0-Z X90&lang=en)

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