

**Siemens  
EcoTech**



EMERGENCY-OFF mushroom pushbutton, 22 mm, round, plastic, red, 40 mm, with Siemens lock, B, special lock, positive latching, according to DIN EN ISO 13850, key-operated release, note: Siemens B locking systems E1 - E25 supplied without key

|                                                    |                                     |
|----------------------------------------------------|-------------------------------------|
| product brand name                                 | SIRIUS ACT                          |
| product designation                                | EMERGENCY STOP 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                                  |
| • contact module                                   | Yes                                 |
| color                                              |                                     |
| • of the actuating element                         | red                                 |
| material of the actuating element                  | plastic                             |
| shape of the actuating element                     | round                               |
| outer diameter of the actuating element            | 40 mm                               |
| type of unlocking device                           | Unlocking                           |
| number of switching positions                      | 2                                   |
| switch position for key distraction                | O                                   |
| lock make                                          | Siemens, B                          |
| <b>Front ring</b>                                  |                                     |
| product component front ring                       | No                                  |
| <b>General technical data</b>                      |                                     |
| product function                                   |                                     |
| • positive opening                                 | Yes                                 |
| • EMERGENCY OFF function                           | Yes                                 |
| • EMERGENCY STOP function                          | Yes                                 |
| 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 (operating cycles) typical | 300 000                             |
| reference code according to IEC 81346-2            | S                                   |
| Substance Prohibitance (Date)                      | 10/01/2014                          |
| Weight                                             | 0.099 kg                            |
| <b>Safety related data</b>                         |                                     |
| product function suitable for safety function      | Yes                                 |
| service life maximum                               | 20 a                                |
| test wear-related service life necessary           | Yes                                 |
| proportion of dangerous failures                   |                                     |
| • with low demand rate according to SN 31920       | 20 %                                |

|                                                                         |         |
|-------------------------------------------------------------------------|---------|
| • with high demand rate according to SN 31920                           | 20 %    |
| <b>B10 value with high demand rate according to SN 31920</b>            | 100 000 |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b>    | 100 FIT |
| <b>ISO 13849</b>                                                        |         |
| <b>device type according to ISO 13849-1</b>                             | 3       |
| <b>IEC 61508</b>                                                        |         |
| <b>safety device type according to IEC 61508-2</b>                      | Type A  |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a    |

#### Ambient conditions

|                                                                |                                                                    |
|----------------------------------------------------------------|--------------------------------------------------------------------|
| <b>ambient temperature</b>                                     |                                                                    |
| • during operation                                             | -25 ... +70 °C                                                     |
| • during storage                                               | -40 ... +80 °C                                                     |
| environmental category during operation according to IEC 60721 | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |

#### Environmental footprint

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| 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 |

#### Installation/ mounting/ dimensions

|                                                    |         |
|----------------------------------------------------|---------|
| <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>                             | 81.3 mm |
| <b>installation width</b>                          | 40 mm   |
| <b>installation depth</b>                          | 26.3 mm |

#### Approvals Certificates

|                          |                   |
|--------------------------|-------------------|
| General Product Approval | Test Certificates |
|--------------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

|                      |       |             |
|----------------------|-------|-------------|
| Maritime application | other | Environment |
|----------------------|-------|-------------|



[Confirmation](#)



#### Environment



[Environmental Confirmations](#)

#### 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=3SU1000-1HK20-0AA0-Z Y01>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1HK20-0AA0-Z Y01>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1HK20-0AA0-Z Y01>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1000-1HK20-0AA0-Z Y01&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-1HK20-0AA0-Z Y01&lang=en)

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