

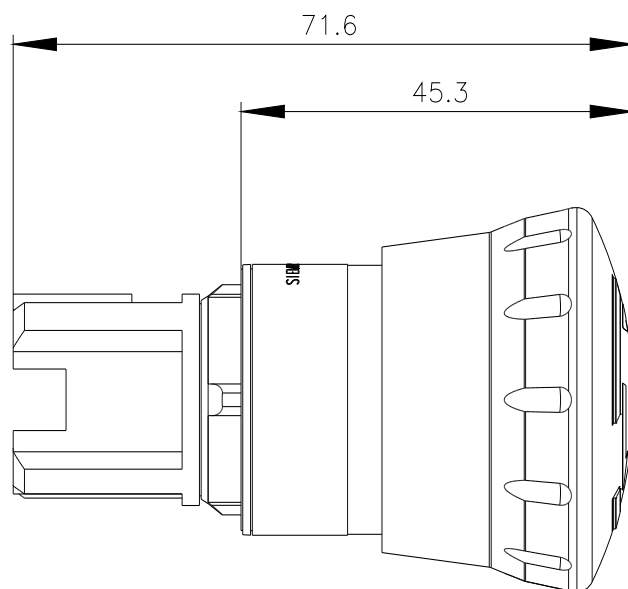
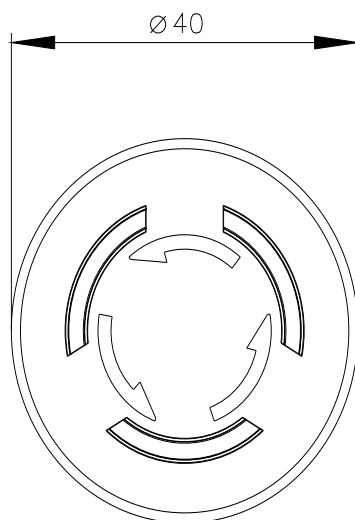
Siemens  
EcoTech



EMERGENCY STOP mushroom pushbutton, illuminable, 22 mm, round, metal, shiny, red, 40 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch

|                                                    |                                     |
|----------------------------------------------------|-------------------------------------|
| product brand name                                 | SIRIUS ACT                          |
| product designation                                | EMERGENCY STOP mushroom pushbuttons |
| design of the product                              | Actuating/signaling element         |
| product type designation                           | 3SU1                                |
| product line                                       | Metal, shiny, 22 mm                 |
| Enclosure                                          |                                     |
| number of command points                           | 1                                   |
| Actuator                                           |                                     |
| design of the actuating element                    | positive latching                   |
| principle of operation of the actuating element    | 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                     | round                               |
| outer diameter of the actuating element            | 40 mm                               |
| type of unlocking device                           | rotate-to-unlatch mechanism         |
| number of switching positions                      | 2                                   |
| Front ring                                         |                                     |
| product component front ring                       | No                                  |
| General technical data                             |                                     |
| 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    |
| vibration resistance                               |                                     |
| • according to IEC 60068-2-6                       | 10 ... 500 Hz: 5g                   |
| operating frequency maximum                        | 600 1/h                             |
| mechanical service life (operating cycles) typical | 300 000                             |
| reference code according to IEC 81346-2            | S                                   |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Substance Prohibittance (Date)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10/01/2014                                                         |
| Net Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 94 g                                                               |
| Safety related data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |
| 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 per NC contact according to SN 31920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 20 %                                                               |
| • with high demand rate per NO contact according to SN 31920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 50 %                                                               |
| B10 value with high demand rate according to SN 31920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 100 000                                                            |
| failure rate [FIT] with low demand rate per NC contact according to SN 31920                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 100 FIT                                                            |
| ISO 13849                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |
| device type according to ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3                                                                  |
| IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                    |
| safety device type according to IEC 61508-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Type A                                                             |
| T1 value for proof test interval or service life according to IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20 a                                                               |
| Ambient conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |
| ambient temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                    |
| • 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.593 kg                                                           |
| global warming potential [CO2 eq] during manufacturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.625 kg                                                           |
| global warming potential [CO2 eq] during operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0.235 kg                                                           |
| global warming potential [CO2 eq] after end of life                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -0.267 kg                                                          |
| Siemens Eco Profile (SEP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Siemens EcoTech                                                    |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                    |
| shape of the installation opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | round                                                              |
| mounting diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 22.3 mm                                                            |
| positive tolerance of installation diameter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.4 mm                                                             |
| mounting height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 45.3 mm                                                            |
| installation width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 40 mm                                                              |
| installation depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 26.3 mm                                                            |
| Approvals Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                    |
| Test Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                    |
| <div><div><br/>EG-Konf.</div><div></div><div><br/>cULus</div><div><br/>VDE</div><div></div></div> <div><a href="#">Type Test Certificates/Test Report</a></div>                              |                                                                    |
| Test Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Maritime application                                               |
| other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |
| <div><div><a href="#">Special Test Certificate</a></div><div><br/>BUREAU<br/>VERITAS</div><div><br/>LRS</div><div><br/>PRS</div><div><br/>RINA</div><div><br/>产品合格<br/>QC PASS</div></div> |                                                                    |
| other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Environment                                                        |

**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=3SU1051-1HB20-0AA0>**Cax online generator**<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1051-1HB20-0AA0>**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**<https://support.industry.siemens.com/cs/ww/en/ps/3SU1051-1HB20-0AA0>**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1051-1HB20-0AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1051-1HB20-0AA0&lang=en)

last modified:

9/30/2025 