











Siemens  
EcoTech



EMERGENCY STOP mushroom pushbutton, 22 mm, round, plastic, 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                                     | 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                         | rotate-to-unlatch mechanism         |
| number of switching positions                    | 2                                   |
| <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                             |

|  |  |
|--|--|
| <b>mechanical service life (operating cycles) typical</b>  | 300 000  |
| <b>reference code according to IEC 81346-2</b>   | S  |
| <b>Substance Prohibittance (Date)</b>  | 10/01/2014   |
| <b>Weight</b>  | 45 g   |
| <b>Safety related data</b>   |  |
| product function suitable for safety function  | Yes  |
| <b>service life maximum</b>  | 20 a   |
| <b>test wear-related service life necessary</b>  | Yes  |
| <b>proportion of dangerous failures</b>  |  |
| • 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 %   |
| <b>B10 value with high demand rate according to SN 31920</b>   | 100 000  |
| <b>failure rate [FIT] with low demand rate per NC contact 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   |
| <b>Ambient conditions</b>  |  |
| <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%) |
| <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>  |  |
| <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  |
| <b>Approvals Certificates</b>  |  |
| <b>General Product Approval</b>  | <b>Test Certificates</b>   |
|       | <a href="#">Type Test Certificates/Test Report</a>                 |
| <b>Test Certificates</b>   | <b>Maritime application</b>  |
| <a href="#">Special Test Certificate</a>      | <b>other</b>   |
| <b>other</b>   | <b>Environment</b>   |



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=3SU1000-1HB20-0AA0>

Cax online generator

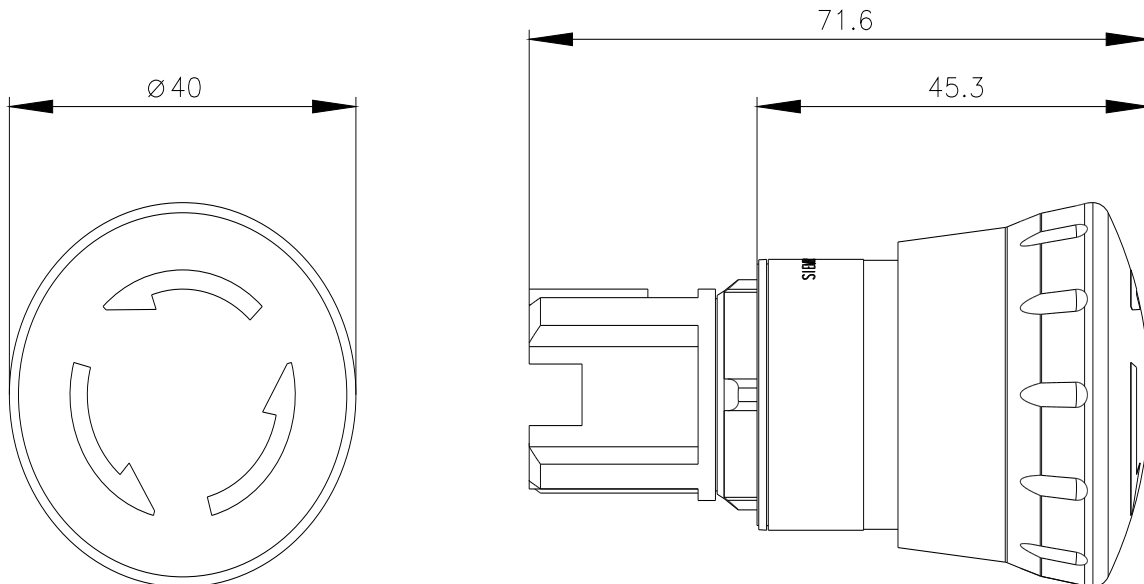
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1HB20-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1HB20-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1000-1HB20-0AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-1HB20-0AA0&lang=en)



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