SIEMENS

## Data sheet 3SU1000-1GB20-0AA0



EMERGENCY STOP mushroom pushbutton, 22 mm, round, plastic, red, 30 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 |
| **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 | 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** | 33.8 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 15 g / 11 ms |
| ● for railway applications according to EN 61373 | Category 1, Class B |
| **vibration resistance** | |
| ● **according to IEC 60068-2-6** | 10 ... 500 Hz: 5 g |
| ● for railway applications according to EN 61373 | Category 1, Class B |
| **operating frequency maximum** | 600 1/h |


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| | |
|---|---|
| **mechanical service life (operating cycles) typical** | 300 000 |
| **reference code according to IEC 81346-2** | S |
| **Substance Prohibitance (day/month/year)** | 10/01/2014 |
| **Net Weight** | 42 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%) |
| **Installation/ mounting/ dimensions** | |
| **shape of the installation opening** | round |
| **mounting diameter** | 22.3 mm |
| **positive tolerance of installation diameter** | 0.4 mm |
| **mounting height** | 44.2 mm |
| **installation width** | 33.8 mm |
| **installation depth** | 26.3 mm |
| **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 |
| **Approvals Certificates** | |
| Environmental Product Declaration | |
| ● 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 | -0.0145 kg |
| ● global warming potential [CO2 eq] / total | 0.787 kg |

| Environment | General Product Approval |
|---|---|

Environmental Confirmations

| General Product Approval | Test Certificates | Maritime application |
|---|---|---|


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Type Test Certific-ates/Test Report

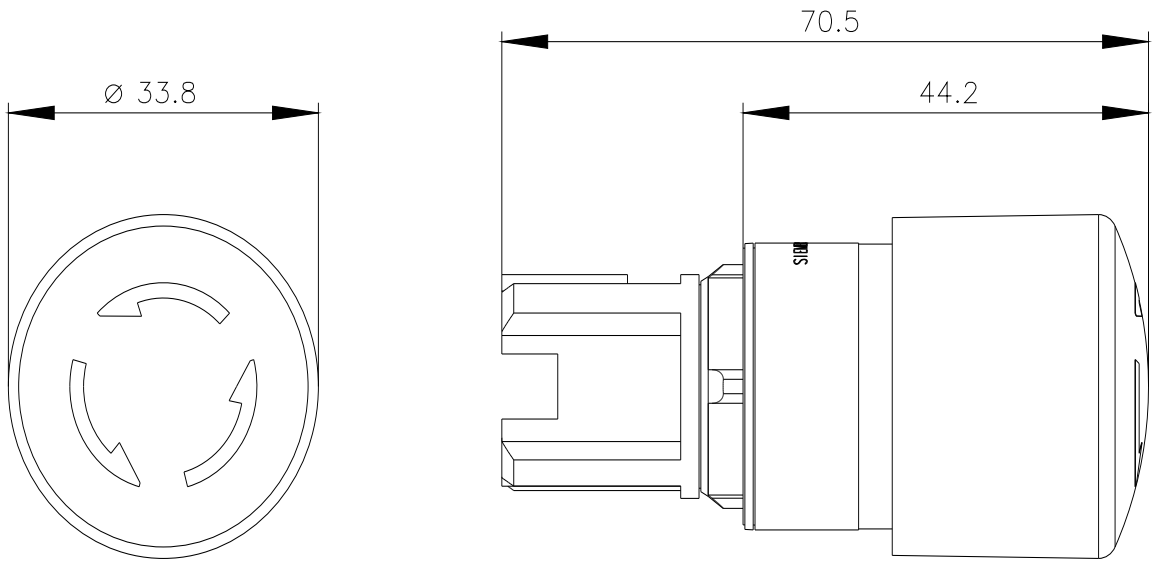
Special Test Certific-ate

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

Confirmation

## 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=3SU1000-1GB20-0AA0
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1000-1GB20-0AA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3SU1000-1GB20-0AA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1000-1GB20-0AA0&lang=en




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