

Siemens  
EcoTech



EMERGENCY STOP mushroom pushbutton, illuminable, 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                                   | 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                                   |
| <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 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                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| mechanical service life (operating cycles) typical                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 300 000                                                            |
| reference code according to IEC 81346-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | S                                                                  |
| Substance Prohibittance (day/month/year)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10/01/2014                                                         |
| Net Weight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 47 g                                                               |
| <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 <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate per NC contact according to SN 31920</li> <li>• with high demand rate per NO contact according to SN 31920</li> </ul>                                                                                                                                                                                                                                                      | 20 %<br>20 %<br>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                                                            |
| <b>ISO 13849</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    |
| device type according to ISO 13849-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3                                                                  |
| <b>IEC 61508</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                    |
| 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                                                               |
| <b>Ambient conditions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |
| ambient temperature <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                               | -25 ... +70 °C<br>-40 ... +80 °C                                   |
| environmental category during operation according to IEC 60721                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%) |
| <b>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                    |
| 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                                                            |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |
| <b>Environmental Product Declaration</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                    |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / during manufacturing</li> <li>• global warming potential [CO2 eq] / during operation</li> <li>• global warming potential [CO2 eq] / after end of life</li> <li>• global warming potential [CO2 eq] / total</li> </ul>                                                                                                                                                                                                                               | 0.566 kg<br>0.235 kg<br>-0.0145 kg<br>0.787 kg                     |
| <div> <div>Environment</div> <div>General Product Approval</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                    |
| <div> <div> <a href="#">Environmental Con-<br/>firmations</a> </div> <div>      </div> </div> |                                                                    |
| <div> <div>General Product Approval</div> <div>Test Certificates</div> <div>Maritime application</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |
| <div> <div>   </div> <div> <a href="#">Type Test Certificates/Test Report</a> <a href="#">Special Test Certificate</a> </div> <div>   </div> </div>                              |                                                                    |
| <div> <div>Maritime application</div> <div>other</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                    |



[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=3SU1001-1HB20-0AA0>

##### Cax online generator

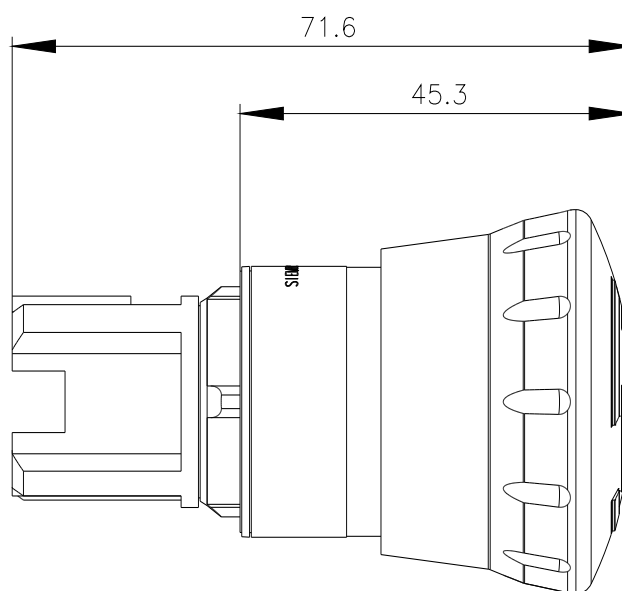
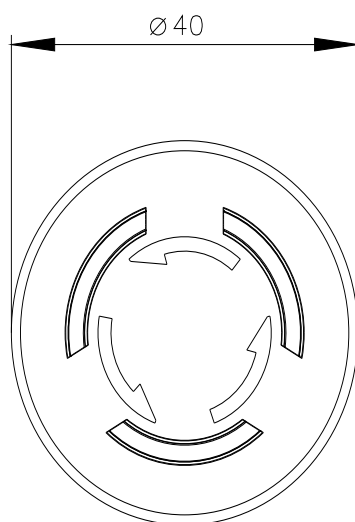
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-1HB20-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1001-1HB20-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1001-1HB20-0AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1001-1HB20-0AA0&lang=en)



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