

Siemens  
EcoTech



Illuminated pushbutton, 22 mm, round, plastic, red, pushbutton, raised momentary contact type



|                                                    |                                  |
|----------------------------------------------------|----------------------------------|
| product brand name                                 | SIRIUS ACT                       |
| product designation                                | Illuminated 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                    | Raised button                    |
| principle of operation of the actuating element    | momentary contact type           |
| 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            | 29.5 mm                          |
| <b>Front ring</b>                                  |                                  |
| product component front ring                       | Yes                              |
| design of the front ring                           | Standard                         |
| material of the front ring                         | plastic                          |
| color of the front ring                            | black                            |
| <b>General technical data</b>                      |                                  |
| 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                        | 3 600 1/h                        |
| mechanical service life (operating cycles) typical | 3 000 000                        |
| reference code according to IEC 81346-2            | S                                |
| Substance Prohibitance (Date)                      | 10/01/2014                       |
| Weight                                             | 16 g                             |

## Safety related data

|                                                                                                              |           |
|--------------------------------------------------------------------------------------------------------------|-----------|
| <b>proportion of dangerous failures</b>                                                                      |           |
| <ul style="list-style-type: none"> <li>with low demand rate according to SN 31920</li> </ul>                 | 20 %      |
| <ul style="list-style-type: none"> <li>with high demand rate per NC contact according to SN 31920</li> </ul> | 20 %      |
| <ul style="list-style-type: none"> <li>with high demand rate per NO contact according to SN 31920</li> </ul> | 50 %      |
| <b>B10 value with high demand rate according to SN 31920</b>                                                 | 3 000 000 |
| <b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b>                          | 100 FIT   |
| <b>IEC 61508</b>                                                                                             |           |
| T1 value for proof test interval or service life according to IEC 61508                                      | 20 a      |

## Ambient conditions

|                                                                    |                                                                    |
|--------------------------------------------------------------------|--------------------------------------------------------------------|
| <b>ambient temperature</b>                                         |                                                                    |
| <ul style="list-style-type: none"> <li>during operation</li> </ul> | -25 ... +70 °C                                                     |
| <ul style="list-style-type: none"> <li>during storage</li> </ul>   | -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>height</b>                                      | 29.5 mm |
| <b>width</b>                                       | 29.5 mm |
| <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>                             | 16.2 mm |
| <b>installation width</b>                          | 29.5 mm |
| <b>installation depth</b>                          | 24.3 mm |

## Approvals Certificates

| General Product Approval                                                                                                                                                                                                                                                                                                                        | Test Certificates                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
|     | <a href="#">Type Test Certificates/Test Report</a><br><a href="#">Special Test Certificate</a> |

| Maritime application                                                                                                                                                                                                                                                                                                                            | other                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
|     |  <a href="#">Confirmation</a> |

## Environment

|                                                                                                                                                                                                                                                             |                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
|    | <a href="#">Environmental Confirmations</a> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|

## Further information

|                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Information on the packaging</b><br><a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a> |
| <b>Information for data generation and storage</b>                                                                                                                             |

<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=3SU1001-0BB20-0AA0>

Cax online generator

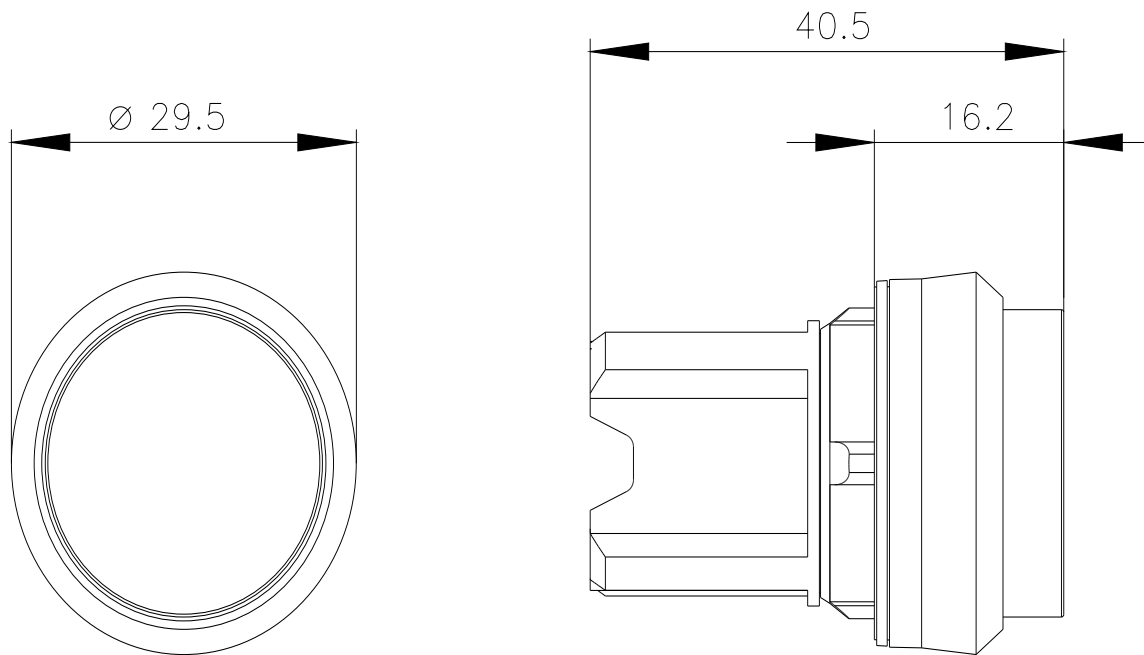
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1001-0BB20-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1001-0BB20-0AA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1001-0BB20-0AA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1001-0BB20-0AA0&lang=en)



last modified:

5/17/2025 