

Siemens  
EcoTech



EMERGENCY STOP mushroom pushbutton, illuminable, 22 mm, round, metal, shiny, red, 30 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch, with laser labeling, upper case and lower case, always upper case at beginning of line

|                                                              |                                                                                              |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 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                                                                          |
| <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                      | 33.8 mm                                                                                      |
| marking of the actuating element                             | Customized labeling, text in lower case/capital letters, all lines start with capital letter |
| 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                                                             |
| 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 Prohibitance (Date)                                | 10/01/2014                                                                                   |
| Weight                                                       | 0.089 kg                                                                                     |
| <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                             |                                                                                              |
| • 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                             | 44.2 mm |
| installation width                          | 33.8 mm |
| installation depth                          | 26.3 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                        | Environment                                                                                                                                                                 |
|    | <a href="#">Confirmation</a> |   |

#### Environment

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

#### Further information

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| Information on the packaging                                                                                                                                                                                                    |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>                                                                                         |
| Information for data generation and storage                                                                                                                                                                                     |
| <a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>                                                                                         |
| Information- and Downloadcenter (Catalogs, Brochures,...)                                                                                                                                                                       |
| <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>                                                                                                                                                         |
| Industry Mall (Online ordering system)                                                                                                                                                                                          |
| <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1051-1GB20-0AA0-Z Y10">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1051-1GB20-0AA0-Z Y10</a>                             |
| Cax online generator                                                                                                                                                                                                            |
| <a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3SU1051-1GB20-0AA0-Z Y10">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3SU1051-1GB20-0AA0-Z Y10</a> |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...)                                                                                                                                                              |
| <a href="https://support.industry.siemens.com/cs/ww/en/ps/3SU1051-1GB20-0AA0-Z Y10">https://support.industry.siemens.com/cs/ww/en/ps/3SU1051-1GB20-0AA0-Z Y10</a>                                                               |

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