



|                                                    |                                                                                              |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|
| 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                                                                          |
| 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            | 40 mm                                                                                        |
| marking of the actuating element                   | Customized labeling, text in lower case/capital letters, all lines start with capital letter |
| type of unlocking device                           | pull-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 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 Prohibittance (Date)                                                                      | 10/01/2014                                                         |                          |                   |
| Weight                                                                                              | 0.086 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 according to SN 31920                                                       | 20 %                                                               |                          |                   |
| B10 value with high demand rate according to SN 31920                                               | 100 000                                                            |                          |                   |
| failure rate [FIT] with low demand rate 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                                                                                 |                                                                    |                          |                   |
| • 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                                                             | 0.593 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                                                    |                          |                   |
| <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>                                                                       |                                                                    |                          |                   |
| <table border="1"> <tr> <td>General Product Approval</td> <td>Test Certificates</td> </tr> </table> |                                                                    | General Product Approval | Test Certificates |
| General Product Approval                                                                            | Test Certificates                                                  |                          |                   |



[Confirmation](#)



[Type Test Certificates/Test Report](#)

Test Certificates

other

Environment

[Special Test Certificate](#)

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Siemens  
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[Environmental Confirmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### 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=3SU1050-1HA20-0AA0-Z Y10>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1050-1HA20-0AA0-Z Y10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1050-1HA20-0AA0-Z Y10>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1050-1HA20-0AA0-Z Y10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1050-1HA20-0AA0-Z Y10&lang=en)

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