

Siemens  
EcoTech



EMERGENCY STOP mushroom pushbutton, 22 mm, round, plastic, red, 40 mm, positive latching, acc. to EN ISO 13850, rotate-to-unlatch, with yellow backing plate, without inscription, with holder, 1 NC, screw terminal, Z=20-unit packaging



|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| product brand name                              | SIRIUS ACT                          |
| product designation                             | EMERGENCY STOP mushroom pushbuttons |
| design of the product                           | Complete unit                       |
| product type designation                        | 3SU1                                |
| product line                                    | Plastic, black, 22 mm               |
| manufacturer's article number                   |                                     |
| • of supplied contact module at position 1      | <a href="#">3SU1400-1AA10-1CA0</a>  |
| • of the supplied holder                        | <a href="#">3SU1550-0AA10-0AA0</a>  |
| • of the supplied actuator                      | <a href="#">3SU1000-1HB20-0AA0</a>  |
| • of supplied accessory                         | <a href="#">3SU1900-0BC31-0AA0</a>  |
| <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         | No                                  |
| 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                               |
| number of contact modules                       | 1                                   |
| type of unlocking device                        | rotate-to-unlatch mechanism         |
| <b>Front ring</b>                               |                                     |
| product component front ring                    | No                                  |
| <b>Holder</b>                                   |                                     |
| material of the holder                          | Plastic                             |
| <b>Display</b>                                  |                                     |
| number of LED modules                           | 0                                   |
| <b>General technical data</b>                   |                                     |
| product function                                |                                     |
| • positive opening                              | Yes                                 |
| • EMERGENCY OFF function                        | Yes                                 |
| • EMERGENCY STOP function                       | Yes                                 |
| product component light source                  | No                                  |
| insulation voltage rated value                  | 500 V                               |
| degree of pollution                             | 3                                   |
| type of voltage of the operating voltage        | AC/DC                               |

|                                                                                     |                                                                                            |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>surge voltage resistance rated value</b>                                         | 6 kV                                                                                       |
| <b>protection class IP</b>                                                          | IP66, IP67, IP69(IP69K)                                                                    |
| protection class IP of the terminal                                                 | IP20                                                                                       |
| <b>degree of protection NEMA rating</b>                                             | 1, 2, 3, 3R, 4, 4X, 12, 13                                                                 |
| <b>shock resistance</b>                                                             |                                                                                            |
| • according to IEC 60068-2-27                                                       | sinusoidal half-wave 15g / 11 ms                                                           |
| • for railway applications according to EN 61373                                    | Category 1, Class B                                                                        |
| <b>vibration resistance</b>                                                         |                                                                                            |
| • according to IEC 60068-2-6                                                        | 10 ... 500 Hz: 5g                                                                          |
| • for railway applications according to EN 61373                                    | Category 1, Class B                                                                        |
| <b>operating frequency maximum</b>                                                  | 600 1/h                                                                                    |
| <b>mechanical service life (operating cycles) typical</b>                           | 300 000                                                                                    |
| electrical endurance (operating cycles) typical                                     | 300 000                                                                                    |
| <b>thermal current</b>                                                              | 10 A                                                                                       |
| <b>reference code according to IEC 81346-2</b>                                      | S                                                                                          |
| <b>continuous current of the C characteristic MCB</b>                               | 10 A; for a short-circuit current smaller than 400 A                                       |
| <b>continuous current of the quick DIAZED fuse link</b>                             | 10 A                                                                                       |
| <b>continuous current of the DIAZED fuse link gG</b>                                | 10 A                                                                                       |
| <b>Substance Prohibitance (Date)</b>                                                | 10/01/2014                                                                                 |
| <b>Weight</b>                                                                       | 95 g                                                                                       |
| <b>operating voltage</b>                                                            |                                                                                            |
| • at AC                                                                             |                                                                                            |
| — at 50 Hz rated value                                                              | 5 ... 500 V                                                                                |
| — at 60 Hz rated value                                                              | 5 ... 500 V                                                                                |
| • at DC rated value                                                                 | 5 ... 500 V                                                                                |
| <b>Power Electronics</b>                                                            |                                                                                            |
| <b>contact reliability</b>                                                          | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA) |
| <b>Auxiliary circuit</b>                                                            |                                                                                            |
| <b>design of the contact of auxiliary contacts</b>                                  | Silver alloy                                                                               |
| <b>number of NC contacts for auxiliary contacts</b>                                 | 1                                                                                          |
| <b>number of NO contacts for auxiliary contacts</b>                                 | 0                                                                                          |
| <b>Connections/ Terminals</b>                                                       |                                                                                            |
| <b>type of electrical connection</b>                                                |                                                                                            |
| • of modules and accessories                                                        | Screw-type terminal                                                                        |
| <b>type of connectable conductor cross-sections</b>                                 |                                                                                            |
| • solid with core end processing                                                    | 2x (0.5 ... 0.75 mm²)                                                                      |
| • solid without core end processing                                                 | 2x (1.0 ... 1.5 mm²)                                                                       |
| • finely stranded with core end processing                                          | 2x (0.5 ... 1.5 mm²)                                                                       |
| • finely stranded without core end processing                                       | 2x (1,0 ... 1,5 mm²)                                                                       |
| • for AWG cables                                                                    | 2x (18 ... 14)                                                                             |
| <b>tightening torque of the screws in the bracket</b>                               | 1 ... 1.2 N·m                                                                              |
| tightening torque for auxiliary contacts with screw-type terminals                  | 0.8 ... 0.9 N·m                                                                            |
| <b>Safety related data</b>                                                          |                                                                                            |
| product function suitable for safety function                                       | Yes                                                                                        |
| <b>service life maximum</b>                                                         | 20 a                                                                                       |
| <b>test wear-related service life necessary</b>                                     | Yes                                                                                        |
| <b>proportion of dangerous failures</b>                                             |                                                                                            |
| • with low demand rate according to SN 31920                                        | 20 %                                                                                       |
| • with high demand rate per NC contact according to SN 31920                        | 20 %                                                                                       |
| <b>B10 value with high demand rate according to SN 31920</b>                        | 100 000                                                                                    |
| <b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b> | 100 FIT                                                                                    |
| <b>ISO 13849</b>                                                                    |                                                                                            |
| <b>device type according to ISO 13849-1</b>                                         | 3                                                                                          |
| <b>IEC 61508</b>                                                                    |                                                                                            |
| <b>safety device type according to IEC 61508-2</b>                                  | Type A                                                                                     |
| T1 value for proof test interval or service life according to IEC 61508             | 20 a                                                                                       |
| <b>Ambient conditions</b>                                                           |                                                                                            |
| <b>ambient temperature</b>                                                          |                                                                                            |

|                                                                                            |                                                                                                                                               |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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%, no condensation in operation permitted for all devices behind front panel) |

#### 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>fastening method</b>                                                      | front plate mounting |
| <ul style="list-style-type: none"> <li>of modules and accessories</li> </ul> | Front plate mounting |
| <b>height</b>                                                                | 40 mm                |
| <b>width</b>                                                                 | 30 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>                                                       | 46.4 mm              |
| <b>installation width</b>                                                    | 75 mm                |
| <b>installation depth</b>                                                    | 48.6 mm              |

#### Accessories

|                                 |        |
|---------------------------------|--------|
| <b>number of backing plates</b> | 1      |
| <b>color of backing plate</b>   | Yellow |

#### Approvals Certificates

| General Product Approval | Test Certificates |
|--------------------------|-------------------|
|--------------------------|-------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

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



[Confirmation](#)



#### Environment



[Environmental Confirmations](#)

#### 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=3SU1100-1HB20-1CF0-Z X90>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-1HB20-1CF0-Z X90>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-1HB20-1CF0-Z X90>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1100-1HB20-1CF0-Z X90&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-1HB20-1CF0-Z X90&lang=en)



