

Siemens  
EcoTech



Mushroom pushbutton, 22 mm, round, plastic, red, 40 mm, latching, pull-to-unlatch mechanism, with holder, 1 NC, screw terminal



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| product brand name   | SIRIUS ACT   |
| product designation  | Mushroom pushbuttons   |
| design of the product  | Complete unit  |
| product type designation   | 3SU1   |
| product line   | Plastic, black, 22 mm  |
| manufacturer's article number  |  |
| <ul style="list-style-type: none"> <li>• of supplied contact module at position 1</li> <li>• of the supplied holder</li> <li>• of the supplied actuator</li> </ul> | <a href="#">3SU1400-1AA10-1CA0</a><br><a href="#">3SU1550-0AA10-0AA0</a><br><a href="#">3SU1000-1BA20-0AA0</a> |
| <b>Enclosure</b>   |  |
| number of command points   | 1  |
| <b>Actuator</b>  |  |
| 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   | pull-to-unlatch mechanism  |
| number of switching positions  | 2  |
| <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>Holder</b>  |  |
| material of the holder   | Plastic  |
| <b>Display</b>   |  |
| number of LEDs   | 0  |
| <b>General technical data</b>  |  |
| product function   |  |
| <ul style="list-style-type: none"> <li>• positive opening</li> <li>• EMERGENCY OFF function</li> <li>• EMERGENCY STOP function</li> </ul>                          | Yes<br>No<br>No  |
| product component light source   | No   |
| insulation voltage rated value   | 500 V  |

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| <b>degree of pollution</b>   | 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>  |   |
| <ul style="list-style-type: none"> <li>● according to IEC 60068-2-27</li> <li>● for railway applications according to EN 61373</li> </ul>  | sinusoidal half-wave 15g / 11 ms<br>Category 1, Class B   |
| <b>vibration resistance</b>  |   |
| <ul style="list-style-type: none"> <li>● according to IEC 60068-2-6</li> <li>● for railway applications according to EN 61373</li> </ul>   | 10 ... 500 Hz: 5g<br>Category 1, Class B  |
| <b>operating frequency maximum</b>   | 1 800 1/h   |
| <b>mechanical service life (operating cycles) typical</b>  | 500 000   |
| electrical endurance (operating cycles) typical  | 10 000 000  |
| <b>thermal current</b>   | 10 A  |
| <b>reference code according to IEC 81346-2</b>   | P   |
| <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>  | 60 g  |
| <b>operating voltage</b>   |   |
| <ul style="list-style-type: none"> <li>● at AC <ul style="list-style-type: none"> <li>— at 50 Hz rated value</li> <li>— at 60 Hz rated value</li> </ul> </li> <li>● at DC rated value</li> </ul>   | 5 ... 500 V<br>5 ... 500 V<br>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>  |   |
| type of electrical connection of modules and accessories   | Screw-type terminal   |
| <b>type of connectable conductor cross-sections</b>  |   |
| <ul style="list-style-type: none"> <li>● solid with core end processing</li> <li>● solid without core end processing</li> <li>● finely stranded with core end processing</li> <li>● finely stranded without core end processing</li> <li>● for AWG cables</li> </ul> | 2x (0.5 ... 0.75 mm <sup>2</sup> )<br>2x (1.0 ... 1.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> )<br>2x (1.0 ... 1.5 mm <sup>2</sup> )<br>2x (18 ... 14) |
| <b>tightening torque of the screws in the bracket</b>  | 1 ... 1.2 N·m   |
| tightening torque with screw-type terminals  | 0.8 ... 0.9 N·m   |
| <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)                       |
| <b>Environmental footprint</b>   |   |
| Environmental Product Declaration (EPD)  | Yes   |
| Global Warming Potential [CO <sub>2</sub> eq] total  | 0.787 kg  |
| Global Warming Potential [CO <sub>2</sub> eq] during manufacturing   | 0.566 kg  |
| Global Warming Potential [CO <sub>2</sub> eq] during operation   | 0.235 kg  |
| Global Warming Potential [CO <sub>2</sub> eq] after end of life  | -0.015 kg   |
| Siemens Eco Profile (SEP)  | Siemens EcoTech   |
| <b>Installation/ mounting/ dimensions</b>  |   |
| <b>fastening method</b>  |   |
| <ul style="list-style-type: none"> <li>● of modules and accessories</li> </ul>   | Front plate mounting  |
| <b>height</b>  | 40 mm   |

|   |         |
|---|---------|
| width                                       | 40 mm   |
| shape of the installation opening           | round   |
| mounting diameter                           | 22.3 mm |
| positive tolerance of installation diameter | 0.4 mm  |
| mounting height                             | 27.5 mm |
| installation width                          | 40 mm   |
| installation depth                          | 49.7 mm |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



##### Test Certificates

##### other

##### Environment

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Confirmation](#)



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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=3SU1100-1BA20-1CA0>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1100-1BA20-1CA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-1BA20-1CA0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1100-1BA20-1CA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-1BA20-1CA0&lang=en)



