



Pushbutton, 22 mm, round, plastic with metal front ring, black, pushbutton, flat, momentary contact type, with holder, 1 NO, spring-type terminal, Z=20-unit packaging

|                                                 |                                            |
|-------------------------------------------------|--------------------------------------------|
| product brand name                              | SIRIUS ACT                                 |
| product designation                             | Pushbuttons                                |
| design of the product                           | Complete unit                              |
| product type designation                        | 3SU1                                       |
| product line                                    | Plastic with metal front ring, matt, 22 mm |
| manufacturer's article number                   |                                            |
| • of supplied contact module at position 1      | <a href="#">3SU1400-1AA10-3BA0</a>         |
| • of the supplied holder                        | <a href="#">3SU1550-0AA10-0AA0</a>         |
| • of the supplied actuator                      | <a href="#">3SU1030-0AB10-0AA0</a>         |
| number of command points                        | 1                                          |
| <b>Actuator</b>                                 |                                            |
| design of the actuating element                 | Button, flat                               |
| principle of operation of the actuating element | momentary contact type                     |
| product extension optional light source         | No                                         |
| color of the actuating element                  | black                                      |
| material of the actuating element               | plastic                                    |
| shape of the actuating element                  | round                                      |
| outer diameter of the actuating element         | 29.45 mm                                   |
| number of contact modules                       | 1                                          |
| <b>Front ring</b>                               |                                            |
| product component front ring                    | Yes                                        |
| design of the front ring                        | Standard                                   |
| material of the front ring                      | Metal, matt                                |
| color of the front ring                         | sand gray                                  |
| <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               | No                                         |
| product component light source                  | No                                         |
| insulation voltage rated value                  | 500 V                                      |
| degree of pollution                             | 3                                          |
| type of voltage of the operating voltage        | AC/DC                                      |
| surge voltage resistance rated value            | 6 kV                                       |
| protection class IP                             | IP66, IP67, IP69(IP69K)                    |
| • of the terminal                               | IP20                                       |
| degree of protection NEMA rating                | 1, 2, 3, 3R, 4, 4X, 12, 13                 |
| shock resistance                                |                                            |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3 600 1/h                                                                                                                                     |
| mechanical service life (switching cycles) typical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10 000 000                                                                                                                                    |
| electrical endurance (switching cycles) typical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10 000 000                                                                                                                                    |
| <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>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0                                                                                                                                             |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1                                                                                                                                             |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |
| <b>type of electrical connection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | spring-loaded terminals                                                                                                                       |
| <ul style="list-style-type: none"> <li>• of modules and accessories</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Spring-type terminal                                                                                                                          |
| <b>type of connectable conductor cross-sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• solid without core end processing</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• at AWG cables</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (0.25 ... 0.75 mm <sup>2</sup> )<br>2x (0.25 ... 1.5 mm <sup>2</sup> )<br>2x (24 ... 16)             |
| <b>tightening torque of the screws in the bracket</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1 ... 1.2 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>Installation/ mounting/ dimensions</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                               |
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11 mm                                                                                                                                         |
| <b>installation width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29.5 mm                                                                                                                                       |
| <b>installation depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 49.7 mm                                                                                                                                       |
| <b>Certificates/ approvals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                               |
| <b>Further information</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                               |
| Information- and Downloadcenter (Catalogs, Brochures,...)<br><a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a><br>Industry Mall (Online ordering system)<br><a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1130-0AB10-3BA0-Z X90">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1130-0AB10-3BA0-Z X90</a><br>Cax online generator<br><a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3SU1130-0AB10-3BA0-Z X90">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3SU1130-0AB10-3BA0-Z X90</a><br>Service&Support (Manuals, Certificates, Characteristics, FAQs,...) |                                                                                                                                               |

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1130-0AB10-3BA0-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=3SU1130-0AB10-3BA0-Z X90&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1130-0AB10-3BA0-Z X90&lang=en)

last modified:

1/26/2022 