

Siemens  
EcoTech



Illuminated pushbutton, 22 mm, round, plastic, red, pushbutton, flat, momentary contact type, with holder, 1NC, LED module with integrated LED 24 V AC/DC, screw terminal, with laser labeling, symbol number according to, ISO 7000 or IEC 60417



|                                                 |                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------|
| product brand name                              | SIRIUS ACT                                                          |
| product designation                             | Illuminated 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 supplied LED module                        | <a href="#">3SU1401-1BB20-1AA0</a>                                  |
| • of the supplied holder                        | <a href="#">3SU1550-0AA10-0AA0</a>                                  |
| • of the supplied actuator                      | <a href="#">3SU1001-0AB20-0AA0</a>                                  |
| number of command points                        | 1                                                                   |
| Actuator                                        |                                                                     |
| design of the actuating element                 | Button, flat                                                        |
| principle of operation of the actuating element | momentary contact type                                              |
| product extension optional light source         | 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         | 29.45 mm                                                            |
| marking of the actuating element                | Customized labeling, graphical symbols acc. to ISO7000 and IEC60417 |
| number of contact modules                       | 1                                                                   |
| Front ring                                      |                                                                     |
| product component front ring                    | Yes                                                                 |
| design of the front ring                        | Standard                                                            |
| material of the front ring                      | plastic                                                             |
| color of the front ring                         | black                                                               |
| Holder                                          |                                                                     |
| material of the holder                          | Plastic                                                             |
| Display                                         |                                                                     |
| number of LED modules                           | 1                                                                   |
| General technical data                          |                                                                     |
| product function positive opening               | Yes                                                                 |
| product component light source                  | Yes                                                                 |
| insulation voltage rated value                  | 320 V                                                               |
| degree of pollution                             | 3                                                                   |
| type of voltage of the operating voltage        | AC/DC                                                               |
| surge voltage resistance rated value            | 4 kV                                                                |

|                                                                                                                                                                                                                                                   |                                                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>protection class IP</b><br>• of the terminal                                                                                                                                                                                                   | IP66, IP67, IP69(IP69K)<br>IP20                                                                                                          |
| <b>degree of protection NEMA rating</b>                                                                                                                                                                                                           | 1, 2, 3, 3R, 4, 4X, 12, 13                                                                                                               |
| <b>shock resistance</b><br>• according to IEC 60068-2-27<br>• for railway applications according to EN 61373                                                                                                                                      | sinusoidal half-wave 15g / 11 ms<br>Category 1, Class B                                                                                  |
| <b>vibration resistance</b><br>• according to IEC 60068-2-6<br>• for railway applications according to EN 61373                                                                                                                                   | 10 ... 500 Hz: 5g<br>Category 1, Class B                                                                                                 |
| <b>operating frequency maximum</b>                                                                                                                                                                                                                | 3 600 1/h                                                                                                                                |
| <b>mechanical service life (operating cycles) typical</b>                                                                                                                                                                                         | 3 000 000                                                                                                                                |
| electrical endurance (operating 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>SVHC substance name</b>                                                                                                                                                                                                                        | Lead monoxide (lead oxide) - 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5                          |
| <b>operating voltage</b><br>• at AC<br>— at 50 Hz rated value<br>— at 60 Hz rated value<br>• at DC rated value                                                                                                                                    | 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>Supply voltage</b>                                                                                                                                                                                                                             |                                                                                                                                          |
| type of voltage of the supply voltage of the light source                                                                                                                                                                                         | AC/DC                                                                                                                                    |
| <b>supply voltage of the light source at AC</b><br>• at 50 Hz rated value<br>• at 60 Hz rated value                                                                                                                                               | 24 V<br>24 V                                                                                                                             |
| supply voltage 1 of the light source at DC rated value                                                                                                                                                                                            | 24 V                                                                                                                                     |
| <b>Control circuit/ Control</b>                                                                                                                                                                                                                   |                                                                                                                                          |
| <b>inrush current of LED module maximum</b>                                                                                                                                                                                                       | 2 A                                                                                                                                      |
| <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><br>• of modules and accessories                                                                                                                                                                              | screw terminal<br>Screw-type terminal                                                                                                    |
| <b>type of connectable conductor cross-sections</b><br>• solid with core end processing<br>• solid without core end processing<br>• finely stranded with core end processing<br>• finely stranded without core end processing<br>• for AWG cables | 2x (0.5 ... 0.75 mm²)<br>2x (1.0 ... 1.5 mm²)<br>2x (0.5 ... 1.5 mm²)<br>2x (1.0 ... 1.5 mm²)<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>Lamp</b>                                                                                                                                                                                                                                       |                                                                                                                                          |
| <b>type of light source</b>                                                                                                                                                                                                                       | LED                                                                                                                                      |
| <b>color of the light source</b>                                                                                                                                                                                                                  | red                                                                                                                                      |
| <b>light intensity</b>                                                                                                                                                                                                                            | 450 ... 1 120 mcd                                                                                                                        |
| <b>Ambient conditions</b>                                                                                                                                                                                                                         |                                                                                                                                          |
| <b>ambient temperature</b><br>• during operation<br>• during storage                                                                                                                                                                              | -25 ... +70 °C<br>-40 ... +80 °C                                                                                                         |
| environmental category during operation according to IEC 60721                                                                                                                                                                                    | 3M6, 3S2, 3B2, 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          |                      |
|---------------------------------------------|----------------------|
| fastening method                            | front plate mounting |
| • of modules and accessories                | Front plate mounting |
| height                                      | 40 mm                |
| width                                       | 30 mm                |
| shape of the installation opening           | round                |
| mounting diameter                           | 22.3 mm              |
| positive tolerance of installation diameter | 0.4 mm               |
| mounting height                             | 11 mm                |
| installation width                          | 29.5 mm              |
| installation depth                          | 49.7 mm              |

| Approvals Certificates   |  |
|--------------------------|--|
| General Product Approval |  |



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| Test Certificates | Marine / Shipping |
|-------------------|-------------------|
|-------------------|-------------------|

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| other | Environment |
|-------|-------------|
|-------|-------------|

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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=3SU1102-0AB20-1CA0-Z Y13>

Cax online generator

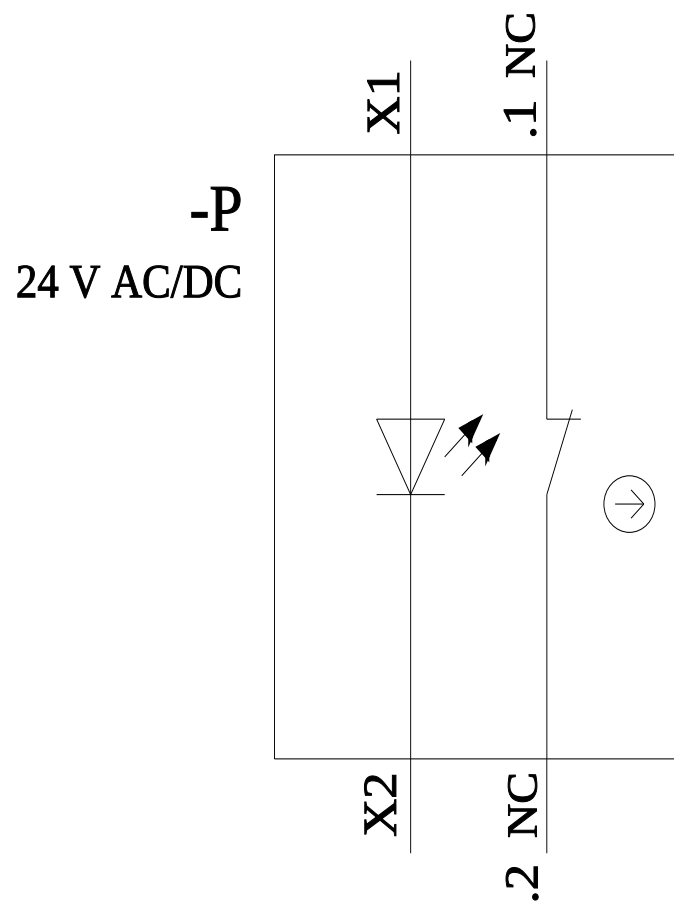
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1102-0AB20-1CA0-Z Y13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1102-0AB20-1CA0-Z Y13>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1102-0AB20-1CA0-Z Y13&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1102-0AB20-1CA0-Z Y13&lang=en)



last modified:

4/8/2024 

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