

Siemens  
EcoTech



Illuminated pushbutton, 22 mm, round, metal, shiny, red, pushbutton, flat, momentary contact type, with holder, 1NC, LED module with integrated LED 110 V AC, screw terminal, with laser labeling, lower case



|                                                 |                                                 |
|-------------------------------------------------|-------------------------------------------------|
| product brand name                              | SIRIUS ACT                                      |
| product designation                             | Illuminated pushbuttons                         |
| design of the product                           | Complete unit                                   |
| product type designation                        | 3SU1                                            |
| product line                                    | Metal, shiny, 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="#">3SU1401-1BC20-1AA0</a>              |
| • of the supplied holder                        | <a href="#">3SU1550-0AA10-0AA0</a>              |
| • of the supplied actuator                      | <a href="#">3SU1051-0AB20-0AA0</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, text in lower case letters |
| number of contact modules                       | 1                                               |
| Front ring                                      |                                                 |
| product component front ring                    | Yes                                             |
| design of the front ring                        | Standard                                        |
| material of the front ring                      | Metal, high gloss                               |
| color of the front ring                         | silver                                          |
| 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>                                     | 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                                                                                                         |
| <b>vibration resistance</b>                                    |                                                                                                                                          |
| • according to IEC 60068-2-6                                   | 10 ... 500 Hz: 5g                                                                                                                        |
| <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>Weight</b>                                                  | 0.093 kg                                                                                                                                 |
| <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>Supply voltage</b>                                          |                                                                                                                                          |
| type of voltage of the supply voltage of the light source      | AC                                                                                                                                       |
| <b>supply voltage of the light source at AC</b>                |                                                                                                                                          |
| • at 50 Hz rated value                                         | 110 V                                                                                                                                    |
| • at 60 Hz rated value                                         | 110 V                                                                                                                                    |
| <b>Control circuit/ Control</b>                                |                                                                                                                                          |
| <b>inrush current of LED module maximum</b>                    | 3 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>                           | screw terminal                                                                                                                           |
| • 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 mm <sup>2</sup> )                                                                                                       |
| • solid without core end processing                            | 2x (1.0 ... 1.5 mm <sup>2</sup> )                                                                                                        |
| • finely stranded with core end processing                     | 2x (0.5 ... 1.5 mm <sup>2</sup> )                                                                                                        |
| • finely stranded without core end processing                  | 2x (1,0 ... 1,5 mm <sup>2</sup> )                                                                                                        |
| • for AWG cables                                               | 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>                                     |                                                                                                                                          |
| • during operation                                             | -25 ... +70 °C                                                                                                                           |
| • during storage                                               | -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) |
| <b>Environmental footprint</b>                                 |                                                                                                                                          |
| Environmental Product Declaration(EPD)                         | Yes                                                                                                                                      |
| Global Warming Potential [CO2 eq] total                        | 0.593 kg                                                                                                                                 |
| Global Warming Potential [CO2 eq] during manufacturing         | 0.625 kg                                                                                                                                 |

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| Global Warming Potential [CO2 eq] during operation  | 0.235 kg        |
| Global Warming Potential [CO2 eq] after end of life | -0.267 kg       |
| Siemens Eco Profile (SEP)                           | Siemens EcoTech |

#### Installation/ mounting/ dimensions

|                                                    |                      |
|----------------------------------------------------|----------------------|
| <b>fastening method</b>                            | front plate mounting |
| • of modules and accessories                       | 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              |

#### Approvals Certificates

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



[Confirmation](#)



[Type Test Certificates/Test Report](#)

|                   |       |             |
|-------------------|-------|-------------|
| Test Certificates | other | Environment |
|-------------------|-------|-------------|

[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=3SU1153-0AB20-1CA0-Z Y12>

##### Cax online generator

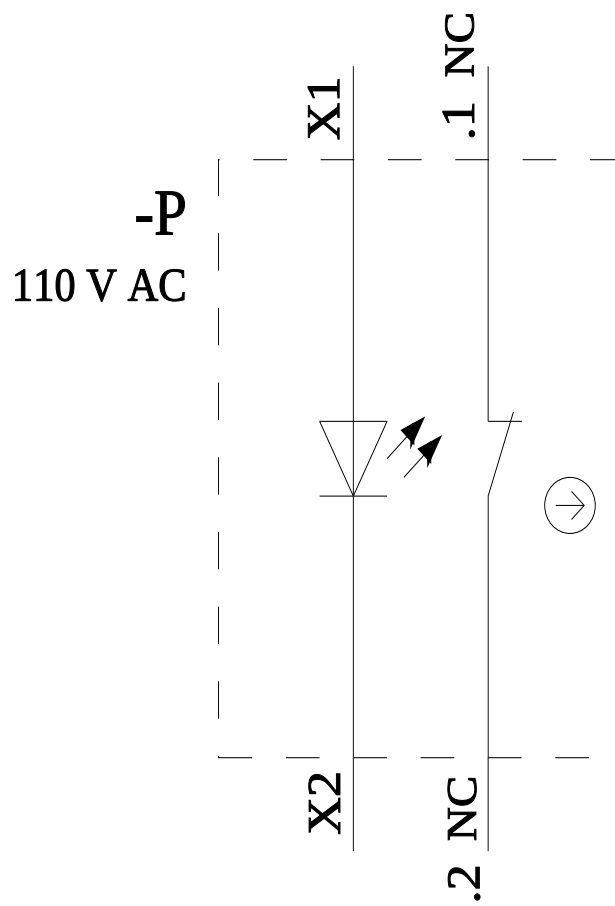
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1153-0AB20-1CA0-Z Y12>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1153-0AB20-1CA0-Z Y12>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1153-0AB20-1CA0-Z Y12&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1153-0AB20-1CA0-Z Y12&lang=en)



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