

Siemens  
EcoTech



Illuminated pushbutton, 22 mm, round, plastic, yellow, pushbutton, flat, momentary contact type, with holder, 1 NO+1 NC, LED module with integrated LED 24 V AC/DC, Spring-type terminal

|                                                 |                                    |
|-------------------------------------------------|------------------------------------|
| 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="#">3SU1400-1AA10-3FA0</a> |
| • of supplied LED module                        | <a href="#">3SU1401-1BB30-3AA0</a> |
| • of the supplied holder                        | <a href="#">3SU1500-0AA10-0AA0</a> |
| • of the supplied actuator                      | <a href="#">3SU1001-0AB30-0AA0</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         | Yes                                |
| color of the actuating element                  | yellow                             |
| 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                      | plastic                            |
| color of the front ring                         | black                              |
| <b>Holder</b>                                   |                                    |
| material of the holder                          | Plastic                            |
| <b>Display</b>                                  |                                    |
| number of LED modules                           | 1                                  |
| <b>General technical data</b>                   |                                    |
| 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 15 g / 11 ms                                                                                           |
| • for railway applications according to EN 61373          | Category 1, Class B                                                                                                         |
| <b>vibration resistance</b>                               |                                                                                                                             |
| • according to IEC 60068-2-6                              | 10 ... 500 Hz: 5 g                                                                                                          |
| • for railway applications according to EN 61373          | 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 (day/month/year)</b>            | 10/01/2014                                                                                                                  |
| <b>SVHC substance name</b>                                | Lead monoxide (lead oxide) CAS-No. 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 |
| <b>Net Weight</b>                                         | 63 g                                                                                                                        |
| <b>operating voltage</b>                                  |                                                                                                                             |
| • at AC                                                   |                                                                                                                             |
| — at 50 Hz rated value                                    | 5 ... 500 V                                                                                                                 |
| — at 60 Hz rated value                                    | 5 ... 500 V                                                                                                                 |
| • at DC rated value                                       | 5 ... 500 V                                                                                                                 |
| <b>Power Electronics</b>                                  |                                                                                                                             |
| <b>contact reliability</b>                                | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)                                  |
| <b>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>           |                                                                                                                             |
| • at 50 Hz rated value                                    | 24 V                                                                                                                        |
| • at 60 Hz rated value                                    | 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>       | 1                                                                                                                           |
| <b>Connections/ Terminals</b>                             |                                                                                                                             |
| <b>type of electrical connection</b>                      | spring-loaded terminals                                                                                                     |
| • of modules and accessories                              | Spring-type terminal                                                                                                        |
| <b>type of connectable conductor cross-sections</b>       |                                                                                                                             |
| • solid without core end processing                       | 2x (0.25 ... 1.5 mm <sup>2</sup> )                                                                                          |
| • finely stranded with core end processing                | 2x (0.25 ... 0.75 mm <sup>2</sup> )                                                                                         |
| • finely stranded without core end processing             | 2x (0.25 ... 1.5 mm <sup>2</sup> )                                                                                          |
| • for AWG cables                                          | 2x (24 ... 16)                                                                                                              |
| <b>tightening torque of the screws in the bracket</b>     | 1 ... 1.2 N·m                                                                                                               |
| <b>Lamp</b>                                               |                                                                                                                             |
| <b>type of light source</b>                               | LED                                                                                                                         |
| <b>color of the light source</b>                          | yellow                                                                                                                      |
| <b>light intensity</b>                                    | 900 ... 1 400 mcd                                                                                                           |
| <b>Safety related data</b>                                |                                                                                                                             |
| product function suitable for safety function             | Yes                                                                                                                         |
| <b>test wear-related service life necessary</b>           | Yes                                                                                                                         |
| <b>proportion of dangerous failures</b>                   |                                                                                                                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>• with low demand rate according to SN 31920</li><li>• with high demand rate per NC contact according to SN 31920</li><li>• with high demand rate per NO contact according to SN 31920</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                    | 20 %                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20 %                                                                                                                                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 50 %                                                                                                                                     |
| <b>B10 value with high demand rate according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3 000 000                                                                                                                                |
| <b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 100 FIT                                                                                                                                  |
| ISO 13849                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                          |
| <b>device type according to ISO 13849-1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                                                                                                                                        |
| IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                          |
| <b>safety device type according to IEC 61508-2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Type A                                                                                                                                   |
| T1 value for proof test interval or service life according to IEC 61508                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20 a                                                                                                                                     |
| Ambient conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                          |
| <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, 3K6 (with relative air humidity of 10 ... 95%, no condensation in operation permitted for all devices behind front panel) |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                          |
| <b>fastening method</b> <ul style="list-style-type: none"><li>• of modules and accessories</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | front plate mounting<br>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 71.7 mm                                                                                                                                  |
| 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                                                                                                                          |
| Approvals Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                          |
| Environmental Product Declaration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                          |
| <ul style="list-style-type: none"><li>• global warming potential [CO2 eq] / during manufacturing</li><li>• global warming potential [CO2 eq] / during operation</li><li>• global warming potential [CO2 eq] / after end of life</li><li>• global warming potential [CO2 eq] / total</li></ul>                                                                                                                                                                                                                                                                                                                                                             | 0.566 kg<br>0.235 kg<br>-0.0145 kg<br>0.787 kg                                                                                           |
| Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                          |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |
| <div><div><a href="#">Environmental Confirmations</a></div><div></div><div></div><div></div><div></div><div></div><div></div></div> |                                                                                                                                          |
| General Product Approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                          |
| Test Certificates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                          |
| Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                          |
| <div><div></div><div></div><div><a href="#">Type Test Certificates/Test Report</a></div><div><a href="#">Special Test Certificate</a></div><div></div><div></div></div>                                                                                                                                   |                                                                                                                                          |
| Maritime application                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                          |
| other                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                          |



[Confirmation](#)



#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1102-0AB30-3FA0>

##### Cax online generator

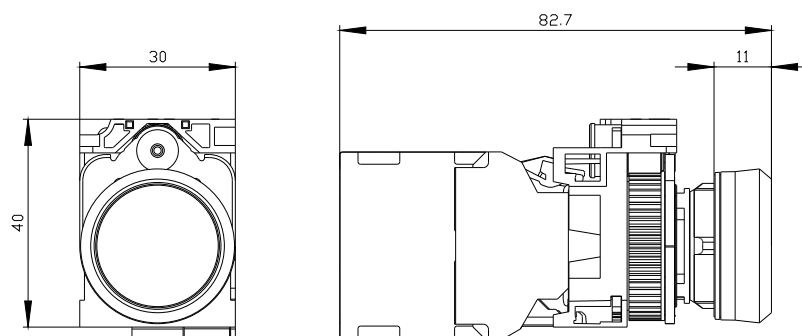
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1102-0AB30-3FA0>

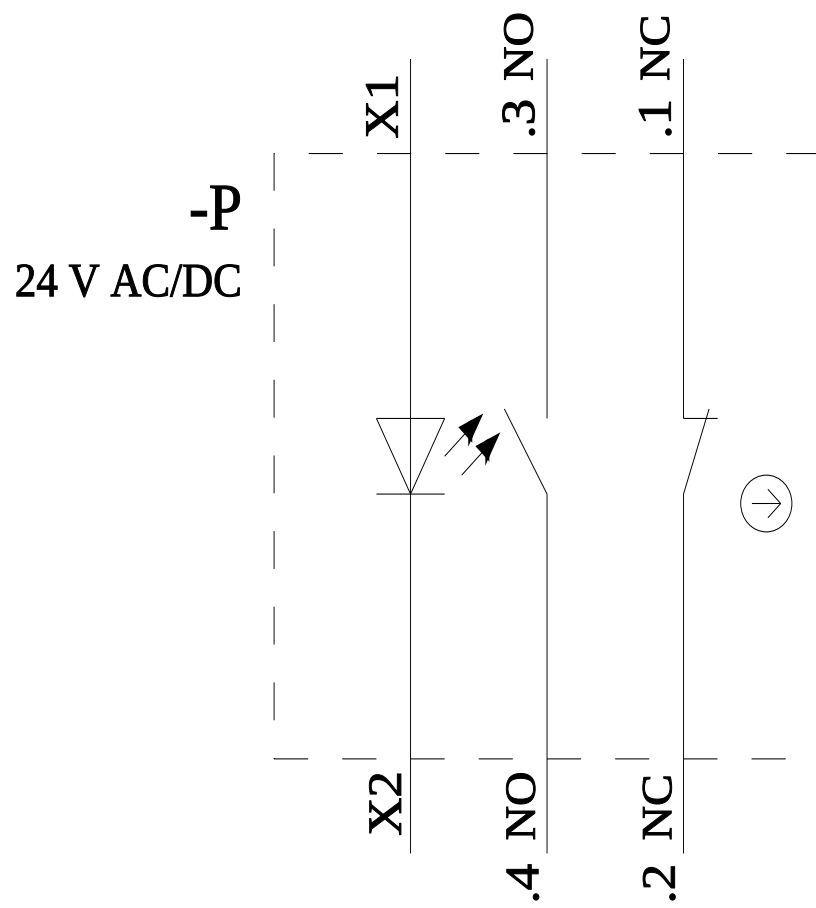
##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1102-0AB30-3FA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1102-0AB30-3FA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1102-0AB30-3FA0&lang=en)





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