

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 110 V AC, 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="#">3SU1401-1BC30-3AA0</a> |
| • of the supplied holder                        | <a href="#">3SU1550-0AA10-0AA0</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> <ul style="list-style-type: none"> <li>• according to IEC 60068-2-27</li> <li>• for railway applications according to EN 61373</li> </ul>                                                                                                              | sinusoidal half-wave 15g / 11 ms<br>Category 1, Class B                                                         |
| <b>vibration resistance</b> <ul style="list-style-type: none"> <li>• according to IEC 60068-2-6</li> <li>• for railway applications according to EN 61373</li> </ul>                                                                                                           | 10 ... 500 Hz: 5g<br>Category 1, Class B                                                                        |
| <b>operating frequency maximum</b>                                                                                                                                                                                                                                             | 3 600 1/h                                                                                                       |
| <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>Net Weight</b>                                                                                                                                                                                                                                                              | 62 g                                                                                                            |
| <b>operating voltage</b> <ul style="list-style-type: none"> <li>• at AC <ul style="list-style-type: none"> <li>— at 50 Hz rated value</li> <li>— at 60 Hz rated value</li> </ul> </li> <li>• at DC rated value</li> </ul>                                                      | 5 ... 500 V<br>5 ... 500 V<br>5 ... 500 V                                                                       |
| <b>Power Electronics</b>                                                                                                                                                                                                                                                       |                                                                                                                 |
| <b>contact reliability</b>                                                                                                                                                                                                                                                     | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA)                      |
| <b>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> <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> <li>• at 60 Hz rated value</li> </ul>                                                                                                                       | 110 V<br>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>                                                                                                                                                                                                                            | 1                                                                                                               |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                  |                                                                                                                 |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• of modules and accessories</li> </ul>                                                                                                                                                            | spring-loaded terminals<br>Spring-type terminal                                                                 |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• solid without core end processing</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• for AWG cables</li> </ul> | 2x (0.25 ... 1.5 mm²)<br>2x (0.25 ... 0.75 mm²)<br>2x (0.25 ... 1.5 mm²)<br>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</li> </ul>                                                                         | 20 %<br>20 %                                                                                                    |

|                                                                                     |                                                                                                                                          |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 31920                                                                               |                                                                                                                                          |
| • with high demand rate per NO contact according to SN 31920                        | 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                                                                                                                                  |
| <b>ISO 13849</b>                                                                    |                                                                                                                                          |
| <b>device type according to ISO 13849-1</b>                                         | 3                                                                                                                                        |
| <b>IEC 61508</b>                                                                    |                                                                                                                                          |
| <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                                                                                                                                     |
| <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>Installation/ mounting/ dimensions</b>                                           |                                                                                                                                          |
| <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>                                                           | 71.7 mm                                                                                                                                  |
| <b>Approvals Certificates</b>                                                       |                                                                                                                                          |
| <b>Environmental Product Declaration</b>                                            |                                                                                                                                          |
| • 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                             | -0.0145 kg                                                                                                                               |
| • global warming potential [CO2 eq] / total                                         | 0.787 kg                                                                                                                                 |
| <b>Environment</b>                                                                  | <b>General Product Approval</b>                                                                                                          |



[Environmental Conformations](#)



|                                 |                          |                             |
|---------------------------------|--------------------------|-----------------------------|
| <b>General Product Approval</b> | <b>Test Certificates</b> | <b>Maritime application</b> |
|---------------------------------|--------------------------|-----------------------------|



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



|                             |              |
|-----------------------------|--------------|
| <b>Maritime application</b> | <b>other</b> |
|-----------------------------|--------------|



[Confirmation](#)

|                            |
|----------------------------|
| <b>Further information</b> |
|----------------------------|

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=3SU1103-0AB30-3FA0>

Cax online generator

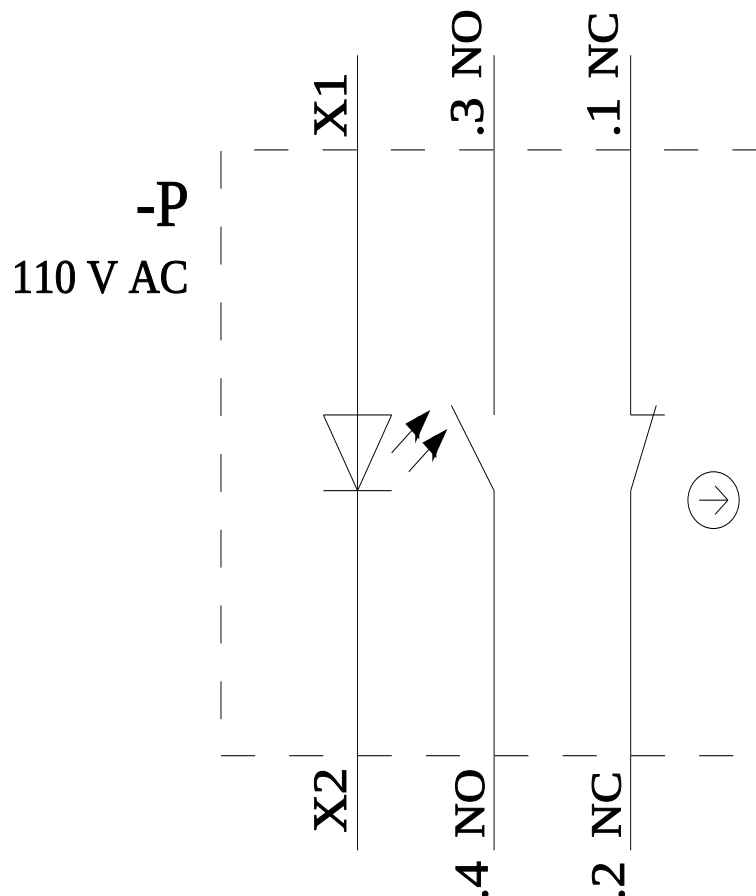
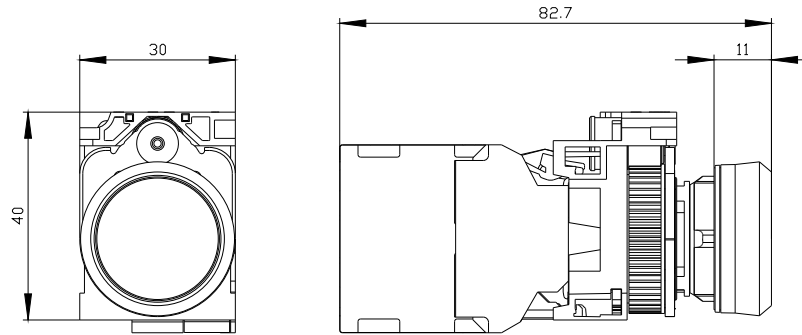
<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1103-0AB30-3FA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1103-0AB30-3FA0>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1103-0AB30-3FA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1103-0AB30-3FA0&lang=en)



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