SIEMENS

## Data sheet 3SU1106-0AB60-1FA0

Siemens EcoTech

Illuminated pushbutton, 22 mm, round, plastic, white, pushbutton, flat, momentary contact type, with holder, 1 NO+1 NC, LED module with integrated LED 230 V AC, screw terminal



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|---|---|
| **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 | 3SU1400-1AA10-1FA0 |
| ● of supplied LED module | 3SU1401-1BF60-1AA0 |
| ● of the supplied holder | 3SU1500-0AA10-0AA0 |
| ● of the supplied actuator | 3SU1001-0AB60-0AA0 |
| **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 | white |
| **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 |
| **Front ring** | |
| **product component front ring** | Yes |
| **design of the front ring** | Standard |
| **material of the front ring** | plastic |
| **color of the front ring** | black |
| **Holder** | |
| **material of the holder** | Plastic |
| **Display** | |
| **number of LED modules** | 1 |
| **General technical data** | |
| product function positive opening | Yes |
| product component light source | Yes |
| **insulation voltage rated value** | 320 V |
| **degree of pollution** | 3 |
| type of voltage of the operating voltage | AC/DC |
| **surge voltage resistance rated value** | 4 kV |


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| **protection class IP** | IP66, IP67, IP69(IP69K) |
| protection class IP of the terminal | IP20, clamping screw tightened |
| **degree of protection NEMA rating** | 1, 2, 3, 3R, 4, 4X, 12, 13 |
| **shock resistance** | |
| ● **according to IEC 60068-2-27** | sinusoidal half-wave 15 g / 11 ms |
| ● for railway applications according to EN 61373 | Category 1, Class B |
| **vibration resistance** | |
| ● **according to IEC 60068-2-6** | 10 ... 500 Hz: 5 g |
| ● for railway applications according to EN 61373 | Category 1, Class B |
| **operating frequency maximum** | 3 600 1/h |
| **mechanical service life (operating cycles) typical** | 3 000 000 |
| electrical endurance (operating cycles) typical | 10 000 000 |
| **thermal current** | 10 A |
| **reference code according to IEC 81346-2** | S |
| **continuous current of the C characteristic MCB** | 10 A; for a short-circuit current smaller than 400 A |
| **continuous current of the quick DIAZED fuse link** | 10 A |
| **continuous current of the DIAZED fuse link gG** | 10 A |
| **Substance Prohibitance (day/month/year)** | 10/01/2014 |
| **SVHC substance name** | 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one CAS-No. 71868-10-5 |
| **Net Weight** | 62.5 g |
| **operating voltage** | |
| ● 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 |
| **Power Electronics** | |
| **contact reliability** | One maloperation per 100 million (17 V, 5 mA), one maloperation per 10 million (5 V, 1 mA) |
| **Supply voltage** | |
| type of voltage of the supply voltage of the light source | AC |
| **supply voltage of the light source at AC** | |
| ● at 50 Hz rated value | 230 V |
| ● at 60 Hz rated value | 230 V |
| **Control circuit/ Control** | |
| **inrush current of LED module maximum** | 3 A |
| **Auxiliary circuit** | |
| **design of the contact of auxiliary contacts** | Silver alloy |
| **number of NC contacts for auxiliary contacts** | 1 |
| **number of NO contacts for auxiliary contacts** | 1 |
| **Connections/ Terminals** | |
| **type of electrical connection** | screw terminal |
| ● of modules and accessories | Screw-type terminal |
| **type of connectable conductor cross-sections** | |
| ● solid with core end processing | 2x (0.5 ... 0.75 mm²) |
| ● solid without core end processing | 2x (1.0 ... 1.5 mm²) |
| ● finely stranded with core end processing | 2x (0.5 ... 1.5 mm²) |
| ● finely stranded without core end processing | 2x (1,0 ... 1,5 mm²) |
| ● for AWG cables | 2x (18 ... 14) |
| **tightening torque of the screws in the bracket** | 1 ... 1.2 N·m |
| tightening torque with screw-type terminals | 0.8 ... 0.9 N·m |
| **Lamp** | |
| **type of light source** | LED |
| **color of the light source** | white |
| **light intensity** | 900 ... 1 400 mcd |
| **Safety related data** | |
| product function suitable for safety function | Yes |
| **test wear-related service life necessary** | Yes |
| **proportion of dangerous failures** | |


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|---|---|
| ● with low demand rate according to SN 31920 | 20 % |
| ● with high demand rate per NC contact according to SN 31920 | 20 % |
| ● with high demand rate per NO contact according to SN 31920 | 50 % |
| **B10 value with high demand rate according to SN 31920** | 3 000 000 |
| **failure rate [FIT] with low demand rate per NC contact according to SN 31920** | 100 FIT |
| ISO 13849 | |
| **device type according to ISO 13849-1** | 3 |
| IEC 61508 | |
| **safety device type according to IEC 61508-2** | Type A |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| **Ambient conditions** | |
| **ambient temperature** | |
| ● 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) |
| **Installation/ mounting/ dimensions** | |
| **fastening method** | front plate mounting |
| ● of modules and accessories | Front plate mounting |
| **height** | 40 mm |
| **width** | 30 mm |
| **shape of the installation opening** | round |
| **mounting diameter** | 22.3 mm |
| **positive tolerance of installation diameter** | 0.4 mm |
| **mounting height** | 11 mm |
| **installation width** | 29.5 mm |
| **installation depth** | 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 | |
| ● 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 |

**Environment**

Environmental Confirmations

**General Product Approval**

**General Product Approval**

**Test Certificates**

Type Test Certificates/Test Report

Special Test Certificate

**Maritime application**

**Maritime application**

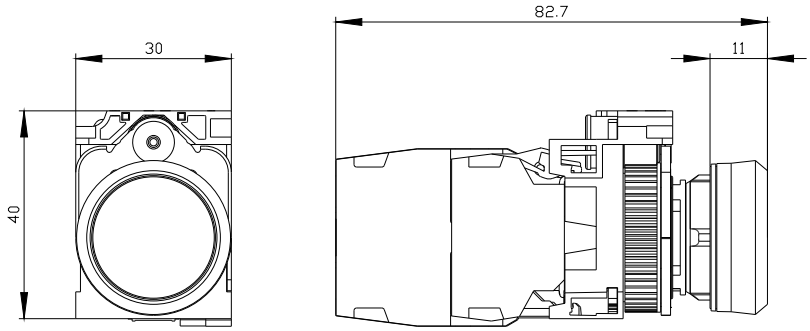
**other**


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Confirmation

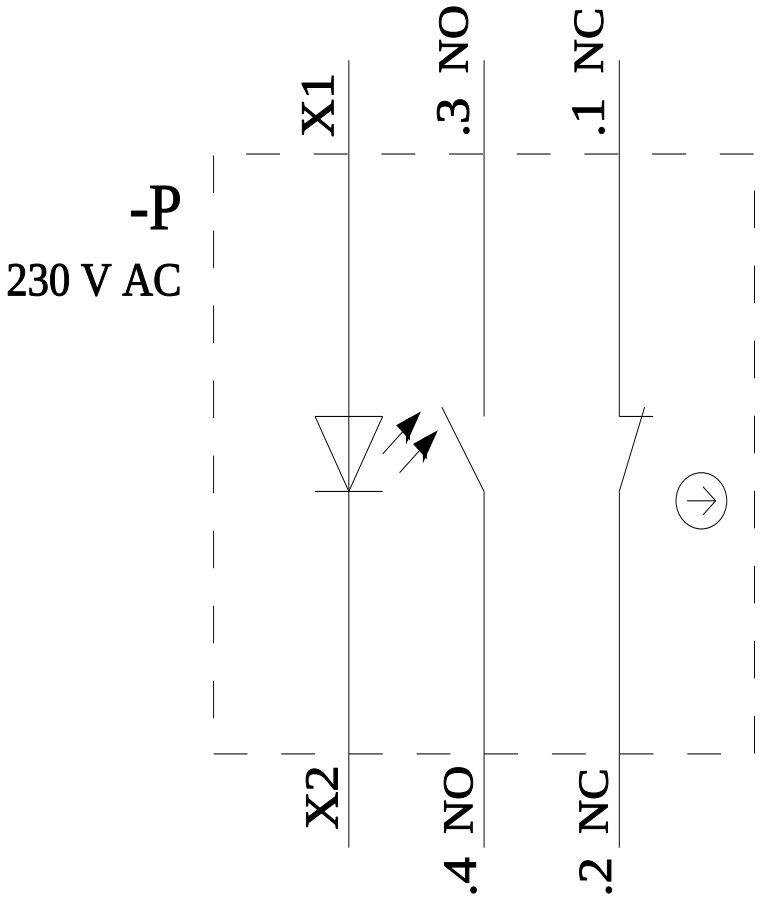
## Further information

**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=3SU1106-0AB60-1FA0
**Cax online generator**
https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1106-0AB60-1FA0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3SU1106-0AB60-1FA0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1106-0AB60-1FA0&lang=en





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