

Siemens  
EcoTech



Illuminated pushbutton, 22 mm, round, plastic, red, pushbutton, flat, momentary contact type, with holder, 1 NC, LED module with integrated LED 24 V AC/DC, Spring-type 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  |  |
| <ul style="list-style-type: none"> <li>• of supplied contact module at position 1</li> <li>• of supplied LED module</li> <li>• of the supplied holder</li> <li>• of the supplied actuator</li> </ul> | <a href="#">3SU1400-1AA10-3CA0</a><br><a href="#">3SU1401-1BB20-3AA0</a><br><a href="#">3SU1550-0AA10-0AA0</a><br><a href="#">3SU1001-0AB20-0AA0</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   | red  |
| 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   |
| protection class IP  | IP66, IP67, IP69(IP69K)  |

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| 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>Weight</b>  | 55 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/DC   |
| <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>   | 24 V<br>24 V  |
| supply voltage 1 of the light source at DC rated value   | 24 V  |
| <b>Control circuit/ Control</b>  |   |
| <b>inrush current of LED module maximum</b>  | 2 A   |
| <b>Auxiliary circuit</b>   |   |
| <b>design of the contact of auxiliary contacts</b>   | Silver alloy  |
| <b>number of NC contacts for auxiliary contacts</b>  | 1   |
| <b>number of NO contacts for auxiliary contacts</b>  | 0   |
| <b>Connections/ Terminals</b>  |   |
| <b>type of electrical connection</b>   | spring-loaded terminals<br>Spring-type terminal   |
| <ul style="list-style-type: none"> <li>• of modules and accessories</li> </ul>   |   |
| <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 mm <sup>2</sup> )<br>2x (0.25 ... 0.75 mm <sup>2</sup> )<br>2x (0.25 ... 1.5 mm <sup>2</sup> )<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>   | red   |
| <b>light intensity</b>   | 450 ... 1 120 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> </ul>   | 20 %<br>20 %  |
| <b>B10 value with high demand rate according to SN 31920</b>   | 3 000 000   |

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| 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    |

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| <b>Ambient conditions</b>                                      |  |
| 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) |

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| <b>Environmental footprint</b>                         |                 |
| 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 |

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| <b>Installation/ mounting/ dimensions</b>   |                      |
| fastening method                            | front plate mounting |
| • of modules and accessories                | Front plate mounting |
| height                                      | 40 mm                |
| width                                       | 30 mm                |
| shape of the installation opening           | round                |
| mounting diameter                           | 22.3 mm              |
| positive tolerance of installation diameter | 0.4 mm               |
| mounting height                             | 11 mm                |
| installation width                          | 29.5 mm              |
| installation depth                          | 49.7 mm              |

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| <b>Approvals Certificates</b> |                   |
| General Product Approval      | Test Certificates |



[Type Test Certificates/Test Report](#)

|                   |                      |       |
|-------------------|----------------------|-------|
| Test Certificates | Maritime application | other |
|-------------------|----------------------|-------|

[Special Test Certificate](#)



[Confirmation](#)

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| <b>Environment</b> |
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[Environmental Confirmations](#)

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| <b>Further information</b> |
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Information on the packaging

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

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

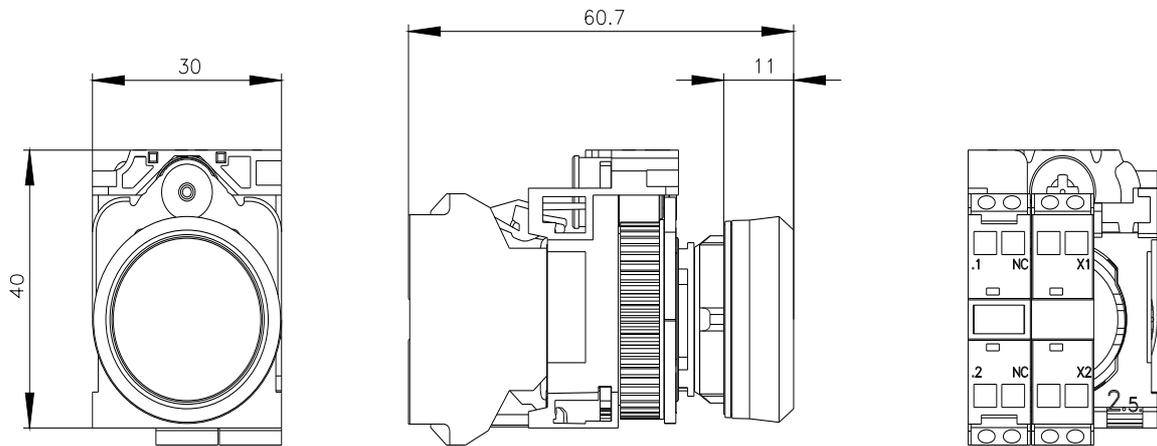
<https://www.siemens.com/ic10>

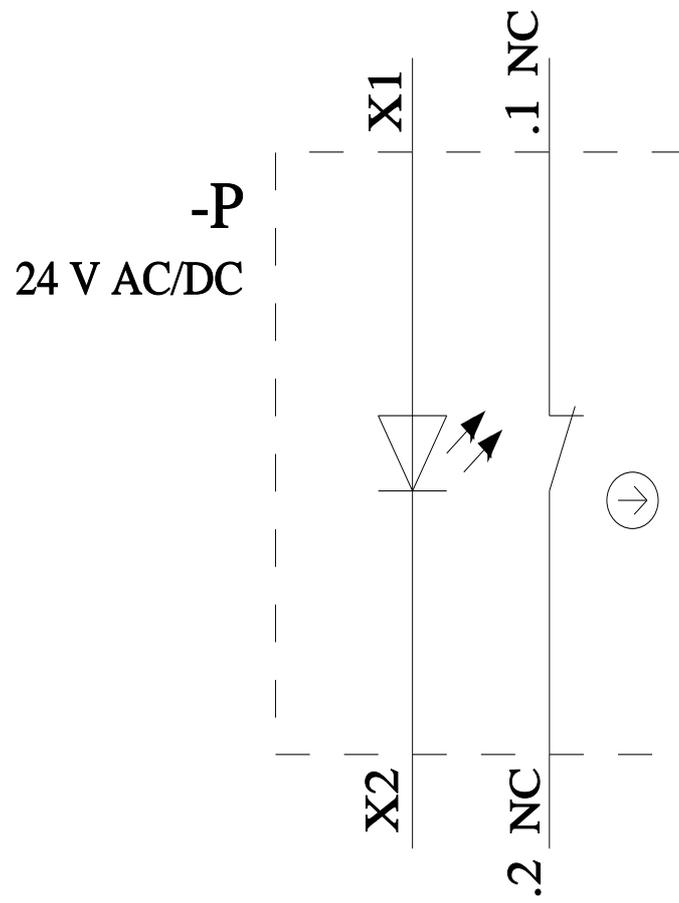
Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1102-0AB20-3CA0>

Cax online generator

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





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