



Illuminated pushbutton, 22 mm, round, plastic, clear, pushbutton, flat, momentary contact type, with holder, 1 NO+1 NC, LED module with integrated LED 24 V AC/DC, screw terminal, Z=20-unit packaging

<b>product brand name</b>	SIRIUS ACT
<b>product designation</b>	Illuminated pushbuttons
<b>design of the product</b>	Complete unit
<b>product type designation</b>	3SU1
<b>product line</b>	Plastic, black, 22 mm
<b>manufacturer's article number</b>	
<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="#">3SU1400-1AA10-1FA0</a> <a href="#">3SU1401-1BB60-1AA0</a> <a href="#">3SU1550-0AA10-0AA0</a> <a href="#">3SU1001-0AB70-0AA0</a>
<b>number of command points</b>	1
<b>Actuator</b>	
<b>design of the actuating element</b>	Button, flat
<b>principle of operation of the actuating element</b>	momentary contact type
<b>product extension optional light source</b>	Yes
<b>color of the actuating element</b>	clear
<b>material of the actuating element</b>	plastic
<b>shape of the actuating element</b>	round
<b>outer diameter of the actuating element</b>	29.45 mm
<b>number of contact modules</b>	1
<b>Front ring</b>	
<b>product component front ring</b>	Yes
<b>design of the front ring</b>	Standard
<b>material of the front ring</b>	plastic
<b>color of the front ring</b>	black
<b>Holder</b>	
<b>material of the holder</b>	Plastic
<b>Display</b>	
<b>number of LED modules</b>	1
<b>General technical data</b>	
<b>product function positive opening</b>	Yes
<b>product component light source</b>	Yes
<b>insulation voltage rated value</b>	320 V
<b>degree of pollution</b>	3
<b>type of voltage of the operating voltage</b>	AC/DC
<b>surge voltage resistance rated value</b>	4 kV
<b>protection class IP</b>	IP66, IP67, IP69(IP69K)
<ul style="list-style-type: none"> <li>• of the terminal</li> </ul>	IP20, clamping screw tightened
<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 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 Category 1, Class B
<b>operating frequency maximum</b>	3 600 1/h
mechanical service life (switching cycles) typical	3 000 000
electrical endurance (switching 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>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 5 ... 500 V 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 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>	screw-type terminals Screw-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 with core end processing</li> <li>• solid without core end processing</li> <li>• finely stranded with core end processing</li> <li>• finely stranded without core end processing</li> <li>• at AWG cables</li> </ul>	2x (0.5 ... 0.75 mm <sup>2</sup> ) 2x (1.0 ... 1.5 mm <sup>2</sup> ) 2x (0.5 ... 1.5 mm <sup>2</sup> ) 2x (1,0 ... 1,5 mm <sup>2</sup> ) 2x (18 ... 14)
<b>tightening torque of the screws in the bracket</b>	1 ... 1.2 N·m
tightening torque with screw-type terminals	0.8 ... 0.9 N·m
<b>Lamp</b>	
<b>type of light source</b>	LED
<b>color of the light source</b>	white
<b>light intensity</b>	900 ... 1 400 mcd
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul>	-25 ... +70 °C -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 Front plate mounting
<ul style="list-style-type: none"> <li>• of modules and accessories</li> </ul>	

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

**Certificates/ approvals**

**Further information**

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=3SU1102-0AB70-1FA0-Z X90>

Cax online generator

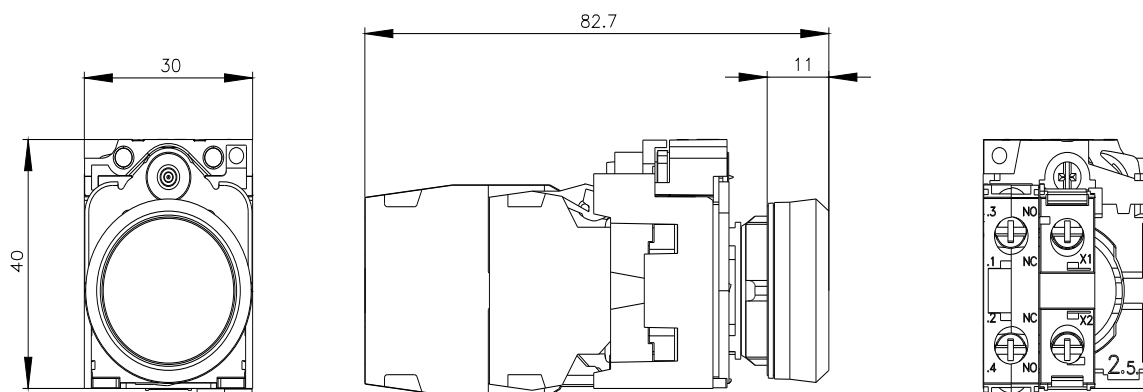
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1102-0AB70-1FA0-Z X90>

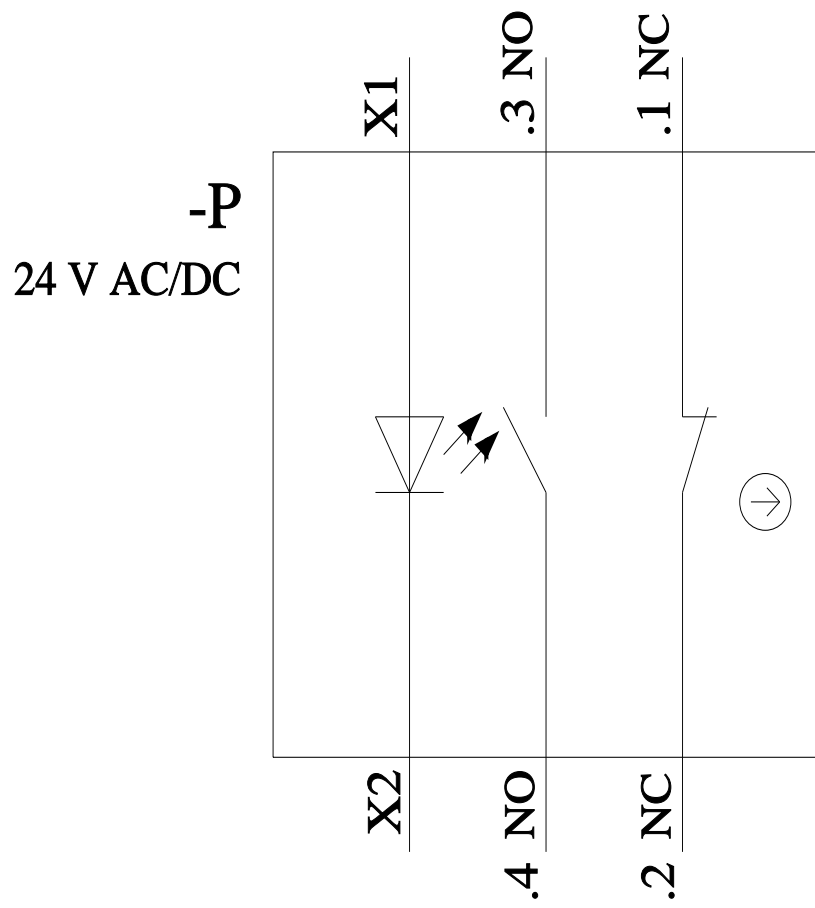
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3SU1102-0AB70-1FA0-Z X90>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3SU1102-0AB70-1FA0-Z X90&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1102-0AB70-1FA0-Z X90&lang=en)





last modified:

2/16/2022