SIEMENS

Data sheet 3SU1102-0AB50-3BA0

Illuminated pushbutton, 22 mm, round, plastic, blue, pushbutton, flat, momentary contact type, with holder, 1 NO, 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	
• 1 of supplied contact module	3SU1400-1AA10-3BA0
• of supplied LED module	3SU1401-1BB50-3AA0
• of the supplied holder	3SU1500-0AA10-0AA0
• of the supplied actuator	3SU1001-0AB50-0AA0
Number of command points	1

Actuator	
Design of the operating mechanism	Button, flat
Manner of function of the actuating element	momentary contact type
Product extension optional Light source	Yes
Color	
• of the actuating element	blue
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	No
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)
• Protection class IP of the terminal	IP20
Degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
Shock resistance	
• acc. to IEC 60068-2-27	Sinusoidal half-wave 50 g / 11 ms
• for railway applications acc. to DIN EN 61373	Category 1, Class B
Vibration resistance	
• acc. to IEC 60068-2-6	10 ... 500 Hz: 5g
• for railway applications acc. to DIN EN 61373	Category 1, Class B
Operating frequency maximum	3 600 1/h
Mechanical service life (switching cycles)	
• typical	3 000 000
Electrical endurance (switching cycles)	
• typical	10 000 000
thermal current	10 A
Reference code acc. to DIN EN 81346-2	S
reference code acc. to DIN EN 61346-2	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

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/DC
Supply voltage of the light source at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 V
Supply voltage of the light source at DC	
• rated value	24 V

Control circuit/ Control

Inrush current of LED module maximum	2 A

Auxiliary circuit

Design of the contact of auxiliary contacts	Silver alloy
Number of NC contacts for auxiliary contacts	0
Number of NO contacts for auxiliary contacts	1

Connections/ Terminals

• Type of electrical connection of modules and accessories	Spring-type terminal
• Type of connectable conductor cross-sections solid without core end processing	2x (0.25 ... 1.5 mm²)
• Type of connectable conductor cross-sections finely stranded with core end processing	2x (0.25 ... 0.75 mm²)
• Type of connectable conductor cross-sections finely stranded without core end processing	2x (0.25 ... 1.5 mm²)
• Type of connectable conductor cross-sections at AWG conductors	2x (24 ... 16)
Tightening torque of the screws in the bracket	1 ... 1.2 N·m

Lamp

type of light source	LED
Color of the light source	blue
Light intensity	280 ... 710 mcd

Ambient conditions

Ambient temperature	
• during operation	-25 ... +70 °C
• during storage	-40 ... +80 °C
Environmental category during operation acc. 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

Mounting type	front panel 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

Certificates/ approvals

General Product Approval				Declaration of Conformity	
CCC	CSA	UL	EAC	EG-Konf.	Miscellaneous

Test Certificates		Marine / Shipping			
Special Test Certificate	Type Test Certificates/Test Report	ABS	LRS	PRS	RINA

Marine / Shipping	other
RMRS	Confirmation

Further information

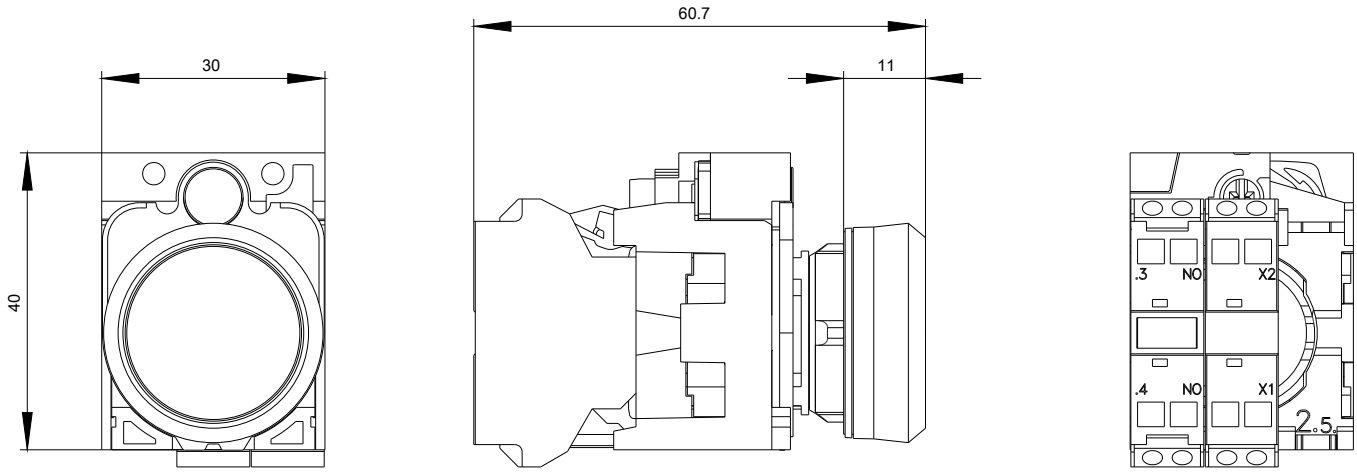
Information- and Downloadcenter (Catalogs, Brochures,…)
https://www.siemens.com/ic10

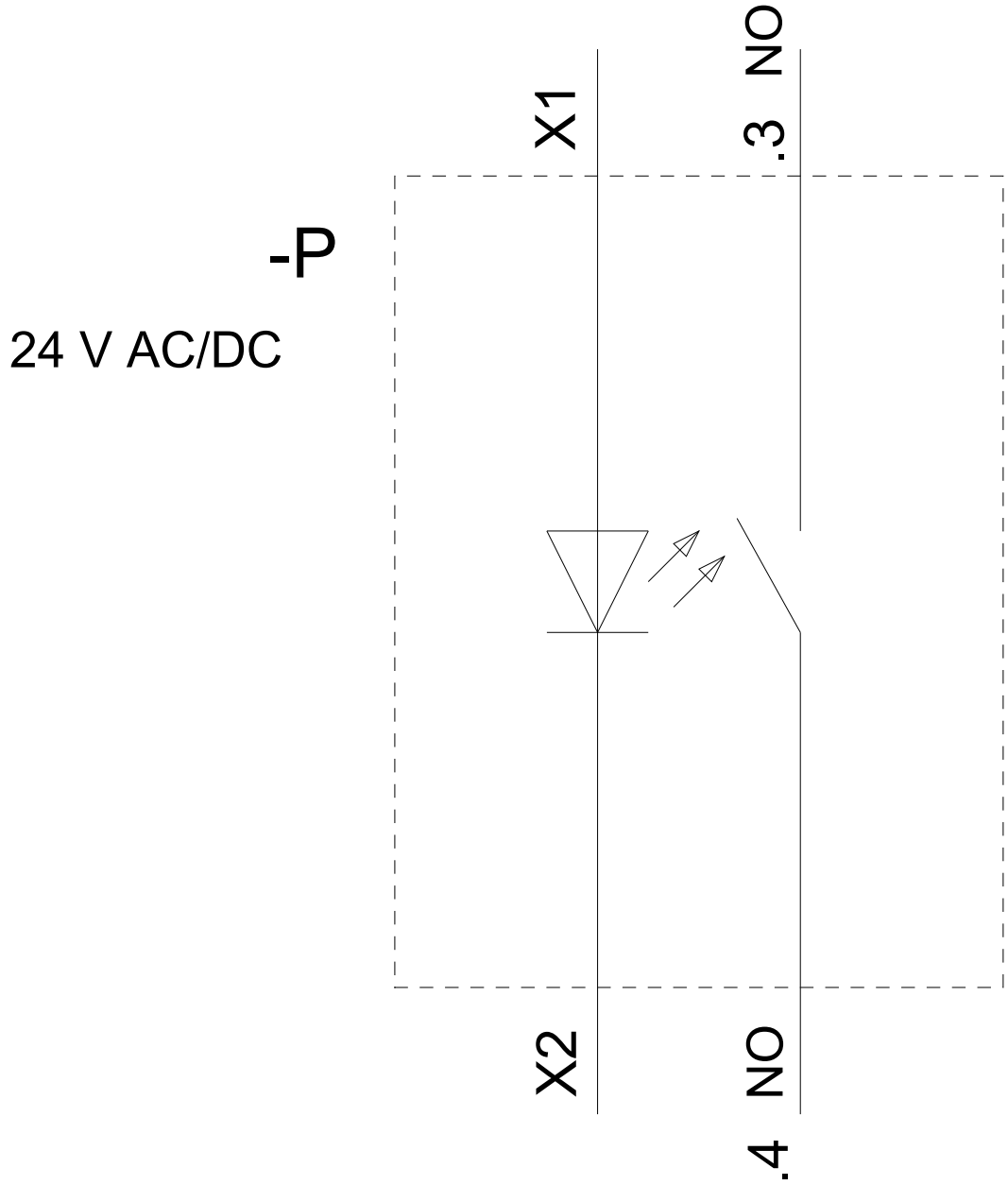
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1102-0AB50-3BA0

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1102-0AB50-3BA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3SU1102-0AB50-3BA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1102-0AB50-3BA0&lang=en





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