Data sheet 3SU1102-0AB20-1CA0

SIRIUS ACT





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, screw terminal



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 	3SU1400-1AA10-1CA0
 of supplied LED module 	3SU1401-1BB20-1AA0
 of the supplied holder 	3SU1550-0AA10-0AA0
of the supplied actuator	3SU1001-0AB20-0AA0
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	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
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
protection class IP	IP66, IP67, IP69(IP69K)

protection close ID of the terminal	IDOO
protection class IP of the terminal	IP20 1, 2, 3, 3R, 4, 4X, 12, 13
degree of protection NEMA rating shock resistance	1, 4, 3, 30, 4, 40, 12, 13
	sinussidal half ways 45% / 44 ma
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
• for railway applications according to EN 61373	Category 1, Class B
vibration resistance	10 500 U-, 5-
• according to IEC 60068-2-6	10 500 Hz: 5g
• 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	\$
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 (Date)	10/01/2014
SVHC substance name	Lead monoxide (lead oxide) - 1317-36-8
Weight	55 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	(5 V, 1 IIIA)
type of voltage of the supply voltage of the light source	AC/DC
supply voltage of the light source at AC	AGIDO
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
supply voltage 1 of the light source at DC rated value	24 V
Control circuit/ Control	27 V
inrush current of LED module maximum	2 A
Auxiliary circuit	27
design of the contact of auxiliary contacts	Silver alloy
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	0
Connections/ Terminals	C .
	agray tarminal
type of electrical connection	screw terminal
of modules and accessories Type of connectable conductor cross-sections	Screw-type terminal
type of connectable conductor cross-sections	2v (0.5 0.75 mm²)
solid with core and processing solid without core and processing	2x (0.5 0.75 mm²)
solid without core end processing finally stranded with core and processing	2x (1.0 1.5 mm²)
finely stranded without core and processing finely stranded without core and processing	2x (0.5 1.5 mm²)
finely stranded without core end processing for AWC cobles.	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	LED
type of light source	LED
color of the light source	red
light intensity	450 1 120 mcd
Ambient conditions	
ambient temperature	
during operation	-25 +70 °C
during operation during storage	-40 +80 °C
during operation during storage environmental category during operation according to IEC	-40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in
during operation during storage	-40 +80 °C

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	
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	49.7 mm	
Approvals Certificates		

General Product Approval







Confirmation





Test Certificates Environment other

Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report

Confirmation







Environmental Con-firmations

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=3SU1102-0AB20-1CA0

Cax online generator

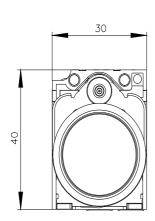
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3SU1102-0AB20-1CA0}$

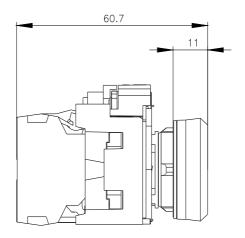
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

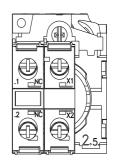
https://support.industry.siemens.com/cs/ww/en/ps/3SU1102-0AB20-1CA0

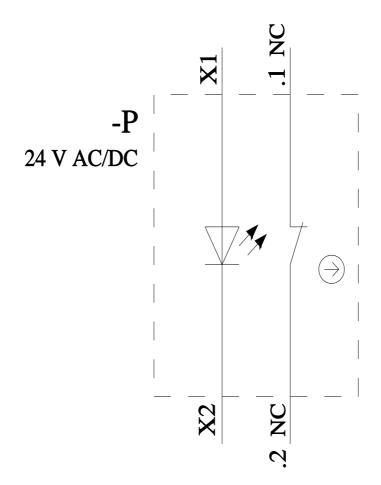
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1102-0AB20-1CA0&lang=en









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