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Pushbutton, 22 mm, round, plastic, black, pushbutton, flat, momentary contact type, with holder 1 NC, screw terminal

product brand name	SIRIUS ACT
product designation	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	<a href="#">3SU1400-1AA10-1CA0</a>
• of the supplied holder	<a href="#">3SU1550-0AA10-0AA0</a>
• of the supplied actuator	<a href="#">3SU1000-0AB10-0AA0</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	No
color of the actuating element	black
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	0
<b>General technical data</b>	
product function positive opening	Yes
product component light source	No
insulation voltage rated value	500 V
degree of pollution	3
type of voltage of the operating voltage	AC/DC
surge voltage resistance rated value	6 kV
protection class IP	IP66, IP67, IP69(IP69K)

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>	
• according to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
• for railway applications according to EN 61373	Category 1, Class B
<b>vibration resistance</b>	
• according to IEC 60068-2-6	10 ... 500 Hz: 5g
• for railway applications according to EN 61373	Category 1, Class B
<b>operating frequency maximum</b>	3 600 1/h
<b>mechanical service life (operating cycles) typical</b>	10 000 000
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>Net Weight</b>	50 g
<b>operating voltage</b>	
• 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
<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>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>	screw terminal
• of modules and accessories	Screw-type terminal
<b>type of connectable conductor cross-sections</b>	
• solid with core end processing	2x (0.5 ... 0.75 mm <sup>2</sup> )
• solid without core end processing	2x (1.0 ... 1.5 mm <sup>2</sup> )
• finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> )
• finely stranded without core end processing	2x (1,0 ... 1,5 mm <sup>2</sup> )
• for AWG cables	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>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>	
• with low demand rate according to SN 31920	20 %
• with high demand rate per NC contact according to SN 31920	20 %
<b>B10 value with high demand rate according to SN 31920</b>	10 000 000
<b>failure rate [FIT] with low demand rate per NC contact according to SN 31920</b>	100 FIT
ISO 13849	
<b>device type according to ISO 13849-1</b>	3
IEC 61508	
<b>safety device type according to IEC 61508-2</b>	Type A
T1 value for proof test interval or service life according to IEC 61508	20 a
<b>Ambient conditions</b>	
<b>ambient temperature</b>	
• during operation	-25 ... +70 °C

• during storage	-40 ... +80 °C
environmental category during operation according to IEC 60721	3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 ... 95%, no condensation in operation permitted for all devices behind front panel)
<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

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



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Environmental Con-  
firmations

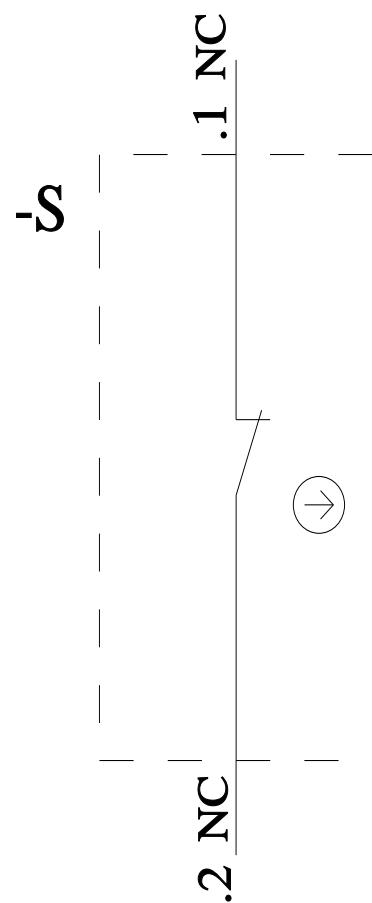
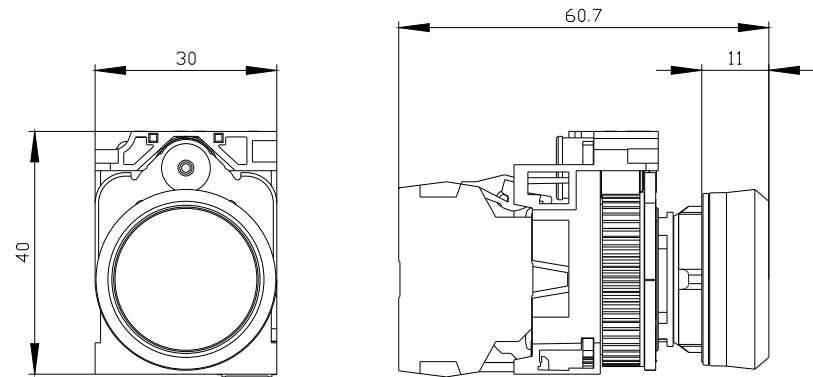


UK  
CA

General Product Approval	Test Certificates	Maritime application
	 <a href="#">Type Test Certific- ates/Test Report</a>	 <a href="#">Special Test Certific- ate</a>

Maritime application	other
	  <a href="#">Confirmation</a>

<b>Further information</b>	
Information on the packaging	<a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a>
Information for data generation and storage	<a href="https://support.industry.siemens.com/cs/ww/en/view/109995012">https://support.industry.siemens.com/cs/ww/en/view/109995012</a>
Information- and Downloadcenter (Catalogs, Brochures,...)	<a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a>
Industry Mall (Online ordering system)	<a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1100-0AB10-1CA0">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1100-0AB10-1CA0</a>
Cax online generator	<a href="https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3SU1100-0AB10-1CA0">https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3SU1100-0AB10-1CA0</a>
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)	<a href="https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-0AB10-1CA0">https://support.industry.siemens.com/cs/ww/en/ps/3SU1100-0AB10-1CA0</a>
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)	<a href="https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-0AB10-1CA0&amp;lang=en">https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1100-0AB10-1CA0&amp;lang=en</a>



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