SIEMENS

Data sheet

3SU1130-1BA20-1FA0



Mushroom pushbutton, 22 mm, round, plastic with metal front ring, red, 40 mm, latching, pull-to-unlatch mechanism, with holder, 1 NO+1 NC, screw terminal

product designation design of the product Complete unit product type designation product line Plastic with metal front ring, matt, 22 mm manufacturer's article number of the supplied contact module at position 1 of the supplied contact module at position 1 of the supplied actuator assuriasor assurias	product brand name	SIRIUS ACT
product type designation product line Plastic with metal front ring, matt, 22 mm manufacturer's article number • of supplied contact module at position 1 • of the supplied holder • of the supplied actuator Enclosure number of command points 1 Actuator principle of operation of the actuating element principle of operation of the actuating element material of the actuating element product extension optional light source color of the actuating element material of the actuating element outer diameter of the actuating element upber of contact modules 1 type of unlocking device number of switching positions 2 Front ring product component front ring design of the front ring material of the front ring Metal, matt color of the front ring Metal, matt color of the front ring material of the holder Plastic Display number of LEDs 0 Ceneral technical data Product component light source No Positive opening • EMERGENCY OFF function • EMERGENCY STOP function • Mo product component light source No	product designation	Mushroom pushbuttons
product line manufacturer's article number • of supplied contact module at position 1 • of the supplied holder • of the supplied holder • of the supplied actuator Enclosure number of command points Actuator principle of operation of the actuating element product extension optional light source color of the actuating element material of the actuating element outer diameter of the actuating element type of unlocking device number of switching positions 2 Front ring product component front ring design of the front ring material of the holder material of the holder product component front fring material of the holder product component gening • positive opening • positive opening • EMERGENCY STOP function • portouct component light source No No Product component light source No Plastic No Poproduct component light source No	design of the product	Complete unit
manufacturer's article number of supplied contact module at position 1 of the supplied holder of the supplied actuator 3SU1500-0AA10-0AA0 of the supplied actuator 3SU1030-1BA20-0AA0 Enclosure number of command points 1 Actuator principle of operation of the actuating element product extension optional light source color of the actuating element shape of the actuating element number of contact modules 1 type of unlocking device number of switching positions 2 Front ring product component front ring design of the front ring material of the front ring material of the holder Plastic Display number of LEDs General technical data product component light source No No No No Product component light source No No No No Product component light source No No No No No Product component light source No	product type designation	3SU1
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Enclosure number of command points Actuator principle of operation of the actuating element product extension optional light source color of the actuating element red material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 40 mm number of contact modules 1 type of unlocking device pull-to-unlatch mechanism number of switching positions 2 Front ring product component front ring Standard material of the front ring Standard material of the front ring Metal, matt color of the front ring sand gray Holder material of the holder Display number of LEDs 0 General technical data product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function No product component light source	 of the supplied holder 	3SU1500-0AA10-0AA0
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outer diameter of the actuating element 40 mm number of contact modules 1 type of unlocking device pull-to-unlatch mechanism number of switching positions 2 Front ring product component front ring Yes design of the front ring Standard material of the front ring Metal, matt color of the front ring sand gray Holder material of the holder Plastic Display number of LEDs 0 General technical data product function • positive opening Yes • EMERGENCY OFF function No • EMERGENCY STOP function No product component light source No	material of the actuating element	plastic
number of contact modules type of unlocking device number of switching positions 2 Front ring product component front ring design of the front ring material of the front ring color of the front ring material of the holder Plastic Display number of LEDs Qeneral technical data product function positive opening EMERGENCY OFF function product component light source No	shape of the actuating element	round
type of unlocking device number of switching positions 2 Front ring product component front ring design of the front ring material of the front ring Color of the front ring Metal, matt sand gray Holder material of the holder Plastic Display number of LEDs 0 General technical data product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function product component light source product component light source pull-to-unlatch mechanism 2 pull-to-unlatch mechanism 2 pull-to-unlatch mechanism 2 Plastic Standard Metal, matt sand gray Metal, matt sand gray Metal, matt sand gray O O O O O O O O O O O O O	outer diameter of the actuating element	40 mm
number of switching positions Front ring product component front ring design of the front ring material of the front ring color of the front ring Metal, matt sand gray Holder material of the holder Plastic Display number of LEDs General technical data product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function product component light source No	number of contact modules	·
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Holder material of the holder Plastic Display number of LEDs General technical data product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function product component light source No	material of the front ring	Metal, matt
material of the holder Display number of LEDs 0 General technical data product function • positive opening • EMERGENCY OFF function • EMERGENCY STOP function product component light source No	color of the front ring	sand gray
number of LEDs 0 General technical data product function • positive opening Yes • EMERGENCY OFF function No • EMERGENCY STOP function No product component light source No	Holder	
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General technical data product function Yes ● positive opening Yes ● EMERGENCY OFF function No ● EMERGENCY STOP function No product component light source No	Display	
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EMERGENCY OFF function EMERGENCY STOP function No product component light source No	product function	
● EMERGENCY STOP function No product component light source No	 positive opening 	Yes
product component light source No	 EMERGENCY OFF function 	No
· · · ·	EMERGENCY STOP function	No
insulation voltage rated value 500 V	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)
of the terminal	IP20, clamping screw tightened
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
shock resistance	
• acc. to IEC 60068-2-27	sinusoidal half-wave 50g / 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	1 800 1/h
mechanical service life (switching cycles) typical	500 000
electrical endurance (switching cycles) typical	10 000 000
thermal current	10 A
reference code acc. to IEC 81346-2	Р
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)	01.10.2014 00:00:00
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)
Auxiliary circuit	
design of the contact of auxiliary contacts	Silver alloy
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts Connections/ Terminals	1
number of NO contacts for auxiliary contacts	1 Screw-type terminal
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories	
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections • solid with core end processing	Screw-type terminal 2x (0.5 0.75 mm²)
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²)
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,4)
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,4)
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel)
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Front plate mounting
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Front plate mounting 40 mm
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Front plate mounting 40 mm 40 mm
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N⋅m 0.8 0.9 N⋅m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Front plate mounting 40 mm 40 mm round
number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection of modules and accessories type of connectable conductor cross-sections	Screw-type terminal 2x (0.5 0.75 mm²) 2x (1.0 1.5 mm²) 2x (0.5 1.5 mm²) 2x (1,0 1,5 mm²) 2x (18 14) 1 1.2 N·m 0.8 0.9 N·m -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3C3, 3K6 (with relative air humidity of 10 95 %, no condensation in operation permitted for all devices behind front panel) Front plate mounting 40 mm 40 mm round 22.3 mm

installation width	40 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=3SU1130-1BA20-1FA0

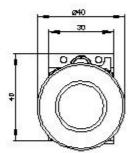
Cax online generator

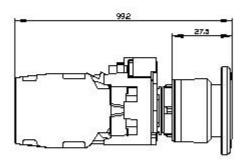
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1130-1BA20-1FA0

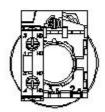
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

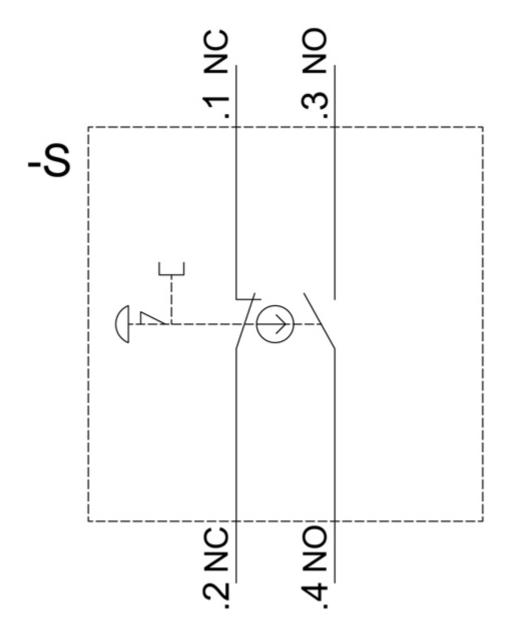
https://support.industry.siemens.com/cs/ww/en/ps/3SU1130-1BA20-1FA0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1130-1BA20-1FA0&lang=en









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