SIEMENS

Data sheet

3SU1156-0AB40-3BA0-Z Y19



Illuminated pushbutton, 22 mm, round, Metal, shiny, green, pushbutton, flat, momentary contact type, with holder, 1NO, LED module with integrated LED 230 V AC, spring-type terminal, with laser labeling, inscription or symbol Customer-specific selection with SIRIUS ACT configurator (CIN)

product designation Illuminated pushbuttons design of the product Complete unit product type designation 3SU1 product line Metal, shiny, 22 mm manufacturer's article number	nroduct brond nome	SIRIUS ACT
design of the product Complete unit product type designation 3SU1 product line Metal, shiny, 22 mm manufacturer's article number • of supplied contact module at position 1 • of supplied contact module at position 1 3SU1400-1AA10-3BA0 • of supplied LED module 3SU1401-1BF40-3AA0 • of the supplied holder 3SU1550-0AA10-0AA0 • of the supplied actuator 3SU1051-0AB40-0AA0 number of command points 1 Actuator 4esign of the actuating element product extension optional light source Yes color of the actuating element green material of the actuating element plastic shape of the actuating element 29.45 mm	•	
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principle of operation of the actuating elementmomentary contact typeproduct extension optional light sourceYescolor of the actuating elementgreenmaterial of the actuating elementplasticshape of the actuating elementroundouter diameter of the actuating element29.45 mm	Actuator	
product extension optional light sourceYescolor of the actuating elementgreenmaterial of the actuating elementplasticshape of the actuating elementroundouter diameter of the actuating element29.45 mm	design of the actuating element	Button, flat
color of the actuating element green material of the actuating element plastic shape of the actuating element round outer diameter of the actuating element 29.45 mm	principle of operation of the actuating element	momentary contact type
material of the actuating elementplasticshape of the actuating elementroundouter diameter of the actuating element29.45 mm	product extension optional light source	Yes
shape of the actuating element round outer diameter of the actuating element 29.45 mm	color of the actuating element	green
outer diameter of the actuating element 29.45 mm	material of the actuating element	plastic
	shape of the actuating element	round
marking of the actuating element Any inscription text or symbol can only be ordered via SIRIUS ACT	outer diameter of the actuating element	29.45 mm
configurator/Configuration Identification Number (CIN)	marking of the actuating element	Any inscription, text or symbol, can only be ordered via SIRIUS ACT configurator/Configuration Identification Number (CIN)
number of contact modules 1	number of contact modules	1
Front ring		
product component front ring Yes	product component front ring	Yes
design of the front ring Standard	design of the front ring	Standard
material of the front ring Metal, high gloss	material of the front ring	Metal, high gloss
color of the front ring silver	color of the front ring	silver
Holder		
material of the holder Plastic	material of the holder	Plastic
Display	Display	
number of LED modules 1	number of LED modules	1
General technical data	General technical data	
product function positive opening No	product function positive opening	No
product component light source Yes	product component light source	Yes
insulation voltage rated value 320 V	insulation voltage rated value	320 V
degree of pollution 3	degree of pollution	3
type of voltage of the operating voltage AC/DC	type of voltage of the operating voltage	AC/DC
surge voltage resistance rated value 4 kV	surge voltage resistance rated value	4 kV
protection class IP IP66, IP67, IP69(IP69K)	protection class IP	IP66, IP67, IP69(IP69K)

 of the terminal 	IP20
degree of protection NEMA rating	1, 2, 3, 3R, 4, 4X, 12, 13
shock resistance	
 according to IEC 60068-2-27 	sinusoidal half-wave 15g / 11 ms
vibration resistance	
according to IEC 60068-2-6	10 500 Hz: 5g
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 according to IEC 81346-2	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
Substance Prohibitance (Date)	10/01/2014
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	
	One malaparation per 100 million (17.1/ 5 m/) and malaparation are 40
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
supply voltage of the light source at AC	
at 50 Hz rated value	230 V
at 50 Hz rated value	230 V
	230 V
Control circuit/ Control	
inrush current of LED module maximum	3 A
	57
Auxiliary circuit	
Auxiliary circuit design of the contact of auxiliary contacts	Silver alloy
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts	
Auxiliary circuit design of the contact of auxiliary contacts	Silver alloy
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts	Silver alloy 0
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts	Silver alloy 0
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals	Silver alloy 0 1
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection	Silver alloy 0 1 spring-loaded terminals
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories	Silver alloy 0 1 spring-loaded terminals
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections	Silver alloy 0 1 spring-loaded terminals Spring-type terminal
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²)
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²)
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²)
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16)
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16)
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m LED
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m LED green
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m LED green
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm²) 2x (0.25 0.75 mm²) 2x (0.25 1.5 mm²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel)
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts Connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting 40 mm
Auxiliary circuit design of the contact of auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts connections/ Terminals type of electrical connection • of modules and accessories type of connectable conductor cross-sections • solid without core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables tightening torque of the screws in the bracket Lamp type of light source color of the light source light intensity Ambient conditions ambient temperature • during operation • during storage environmental category during operation according to IEC 60721 Installation/ mounting/ dimensions fastening method • of modules and accessories	Silver alloy 0 1 spring-loaded terminals Spring-type terminal 2x (0.25 1.5 mm ²) 2x (0.25 0.75 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 1 1.2 N·m LED green 900 1 800 mcd -25 +70 °C -40 +80 °C 3M6, 3S2, 3B2, 3K6 (with relative air humidity of 10 95%, no condensation in operation permitted for all devices behind front panel) front plate mounting Front plate mounting Front plate mounting

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		
Further information		
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10 Industry Mall (Online ordering system)		

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SU1156-0AB40-3BA0-Z Y19

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3SU1156-0AB40-3BA0-Z Y19

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

https://support.industry.siemens.com/cs/ww/en/ps/3SU1156-0AB40-3BA0-Z Y19

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SU1156-0AB40-3BA0-Z Y19&lang=en

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