SIEMENS

Product data sheet 3SB3201-0BA11

22MM PLASTIC ROUND COMPLETE UNIT COMBINATION: PUSHBUTTON WITH RAISED BUTTON SCREW TERMINAL, 1NO+1NC WITH HOLDER BLACK

Actuator:				
Design of the product	Complete unit round			
Design of the operating mechanism	Pushbutton			
Functionality / of the actuator	Momentary contact type			
Type of unlocking device	without			
Color / of the activation element	black			
Material / of the activation element	plastic			
Shape / of the activation element	Raised pushbutton			
Number of switching positions	2			
Product component / front ring	Yes			
Material / of the front ring	plastic			
Color / of the front ring	black			
Design of the front ring	Standard			
Product function / EMERGENCY STOP function	No			
Holder:				
Material / of the holder	Plastic			
Contact block/ lampholder:				
Design of the electrical connection	screw-type terminals			
Number of switching elements	1			
Number of NC contacts / for auxiliary contacts	1			
Number of NO contacts / for auxiliary contacts	1			
Number of changeover contacts / for auxiliary contacts	0			
Product function / positive opening	Yes			
Number of lampholders	0			
Product component / fluorescent materials	No			
Product extension / optional / fluorescent materials	No			
Accessories:				
Product component / holder for 3 switching elements	No			
General technical data:				

• minimum	Voltage type / of operating voltage		AC/DC
• maximum V 400 Operating current * at AC-12 * at 24 V / rated value A 10 • at 48 V / rated value A 10 * at 10 V / rated value A 10 • at 230 V / rated value A 10 * at 400 V / rated value A 10 • at 40 V / rated value A 6 * at 42 V / rated value A 6 • at 48 V / rated value A 6 * at 220 V / rated value A 6 • at 400 V / rated value A 6 * at 220 V / rated value A 6 • at 24 V / rated value A 5 * at 24 V / rated value A 5 • at 110 V / rated value A 1 * at 220 V / rated value A 1 • at 220 V / rated value A 1 * at 220 V / rated value A 1 • at 220 V / rated value A 1,5 * at 110 V / rated value A 0,3 • at 24 V / rated value A 1,5 * at 24 V / rated value A 0,3	Operating voltage / rated value		
### AC-12 **at AC-12 **at 24 V / rated value A	• minimum	V	5
* at AC-12 * at 24 V / rated value at 48 V / rated value A 10 * at 110 V / rated value A 10 * at 123 V / rated value A 10 * at 230 V / rated value A 10 * at AC-15 * at 24 V / rated value A 6 * at 48 V / rated value A 6 * at 110 V / rated value A 6 * at 110 V / rated value A 6 * at 230 V / rated value A 6 * at 1230 V / rated value A 7 * at 48 V / rated value A 8 * at 230 V / rated value A 9 * at 400 V / rated value A 10 * at 400 V / rated value A 10 * at 400 V / rated value A 10 * at 20 V / rated value A 10 * at 20 V / rated value A 10 * at 20 V / rated value A 10 * at 20 V / rated value A 10 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 15 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 17 * at 20 V / rated value A 18 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rated value A 19 * at 20 V / rate	• maximum	V	400
* at 24 V / rated value	Operating current		
* at 48 V / rated value	• at AC-12		
* at 110 V / rated value	• at 24 V / rated value	Α	10
- at 230 V / rated value - at 400 V / rated value - at 400 V / rated value - at 24 V / rated value - at 24 V / rated value - at 48 V / rated value - at 110 V / rated value - at 230 V / rated value - at 230 V / rated value - at 240 V / rated value - at 400 V / rated value - at 400 V / rated value - at 400 V / rated value - at 24 V / rated value - at 24 V / rated value - at 24 V / rated value - at 110 V / rated value - at 230 V / rated value - at 230 V / rated value - at 24 V / rated value - at 230 V / rated value - at 24 V / rated value - at 230 V / rated value - at 200 V / rated	• at 48 V / rated value	Α	10
* at AOU V / rated value	• at 110 V / rated value	Α	10
• at 24 V / rated value A 6 • at 48 V / rated value A 6 • at 110 V / rated value A 6 • at 230 V / rated value A 6 • at 400 V / rated value A 3 • at DC-12 -1 -1 • at 24 V / rated value A 5 • at 48 V / rated value A 5 • at 110 V / rated value A 1 • at 230 V / rated value A 1 • at 24 V / rated value A 3 • at 24 V / rated value A 1.5 • at 110 V / rated value A 0.7 • at 120 V / rated value A 0.3 • at 230 V / rated value A 0.3 • at 230 V / rated value A 0.3 • at 320 V / rated value A 0.7 • at 230 V / rated value A 0.7 • at 230 V / rated value A 0.7 • at 230 V / rated value A 0.7 • at 230 V / rated value A 0.7 • at 230 V / rated value A 0.	• at 230 V / rated value	Α	10
* at 24 V / rated value * at 48 V / rated value * at 110 V / rated value * at 230 V / rated value * at 230 V / rated value * at 240 V / rated value * at 24 V / rated value * at 24 V / rated value * at 24 V / rated value * at 124 V / rated value * at 124 V / rated value * at 110 V / rated value * at 110 V / rated value * at 230 V / rated value * at 230 V / rated value * at 24 V / rated value * at 25 V / rated value * at 26 V / rated value * at 27 V / rated value * at 27 V / rated value * at 28 V / rated value * at 29 V / rated value * at 29 V / rated value * at 20 V /	• at 400 V / rated value	Α	10
* at 48 V / rated value	• at AC-15		
* at 110 V / rated value	• at 24 V / rated value	Α	6
• at 230 V / rated value • at 400 V / rated value • at 400 V / rated value • at 24 V / rated value • at 24 V / rated value • at 48 V / rated value • at 48 V / rated value • at 230 V / rated value • at 230 V / rated value • at 230 V / rated value • at 24 V / rated value • at 30 V / rated value • at 30 V / rated value • at 48 V / rated value • at 30 V / rated value • at 30 V / rated value • at 230 V / rated value • 10 devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N-m Ambient temperature	• at 48 V / rated value	А	6
* at 400 V / rated value * at DC-12 * at 24 V / rated value * at 48 V / rated value * at 110 V / rated value * at 230 V / rated value * at 230 V / rated value * at 24 V / rated value * at 30 V / rated value * at 30 V / rated value * at 30 V / rated value * at 230 V / rated value * A 0.3 **Resistance against shock * for devices without incandescent lamp / according to IEC 60068-2-6 **Operating cycles / maximum * 1/h * 1,000 **Mechanical operating cycles as operating time / typical * Reference code * according to DIN EN 61346-2 * according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 **Tightening torque / of the screws in the bracket / maximum * N-m * 1 * Ambient temperature	• at 110 V / rated value	Α	6
• at DC-12 • at 24 V / rated value • at 48 V / rated value • at 110 V / rated value • at 230 V / rated value • at 230 V / rated value • at 24 V / rated value • at 24 V / rated value • at 24 V / rated value • at 25 • at 27 • at 29 V / rated value • at 20 V /	• at 230 V / rated value	Α	6
at 24 V / rated value at 48 V / rated value A 5 at 110 V / rated value A 2.5 at 230 V / rated value A 1 at 24 V / rated value A 3 at 24 V / rated value A 1.5 at 110 V / rated value A 5 A 1 at 28 V / rated value A 1.5 at 110 V / rated value A 0.7 at 230 V / rated value A 0.7 at 230 V / rated value A 0.3 Resistance against shock for devices without incandescent lamp / according to IEC 60068-2-7 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code according to DIN EN 61346-2 according to DIN EN 61346-2 according to IEC 750 Tightening torque / of the screws in the bracket / maximum N-m 1 Ambient temperature	• at 400 V / rated value	Α	3
 at 48 V / rated value at 110 V / rated value at 230 V / rated value at DC-13 at 24 V / rated value at 48 V / rated value at 48 V / rated value at 110 V / rated value at 230 V / rated value at 200 V / rated value at 200	• at DC-12		
 at 110 V / rated value at 230 V / rated value at DC-13 at 24 V / rated value at 3 at 48 V / rated value at 110 V / rated value at 110 V / rated value at 230 V / rated value at 200 V / rated value<	• at 24 V / rated value	Α	10
at 230 V / rated value at DC-13 at 24 V / rated value at 48 V / rated value at 110 V / rated value at 230 V / rated value for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum Mechanical operating cycles as operating time / typical Reference code according to DIN EN 61346-2 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N-m 1 Ambient temperature	• at 48 V / rated value	Α	5
at 24 V / rated value at 48 V / rated value A 1.5 at 110 V / rated value A 0.7 at 230 V / rated value A 0.3 Resistance against shock for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code according to DIN EN 61346-2 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature	• at 110 V / rated value	Α	2.5
* at 24 V / rated value * at 48 V / rated value * at 110 V / rated value * at 230 V / rated value * at 230 V / rated value * for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h	• at 230 V / rated value	Α	1
* at 48 V / rated value * at 110 V / rated value * at 230 V / rated value * at 230 V / rated value * for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum I/h 1,000 Mechanical operating cycles as operating time / typical Reference code * according to DIN EN 61346-2 * according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N-m 1 Ambient temperature	• at DC-13		
• at 110 V / rated value • at 230 V / rated value Resistance against shock • for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 A 0.3	• at 24 V / rated value	Α	3
• at 230 V / rated value Resistance against shock • for devices without incandescent lamp / according to IEC 60068-2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature	• at 48 V / rated value	Α	1.5
Resistance against shock • for devices without incandescent lamp / according to IEC 60068- 2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m Ambient temperature	• at 110 V / rated value	Α	0.7
• for devices without incandescent lamp / according to IEC 60068- 2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N-m 1 Ambient temperature	• at 230 V / rated value	Α	0.3
2-27 Resistance against vibration / according to IEC 60068-2-6 Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature	Resistance against shock		
Operating cycles / maximum 1/h 1,000 Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature			<= 50g
Mechanical operating cycles as operating time / typical Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature	Resistance against vibration / according to IEC 60068-2-6		20 200 Hz: 5g
Reference code • according to DIN EN 61346-2 • according to DIN 40719 extended according to IEC 204-2 / S S S S S S S S S S S S S	Operating cycles / maximum	1/h	1,000
according to DIN EN 61346-2 according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum N·m 1 Ambient temperature	Mechanical operating cycles as operating time / typical		10,000,000
according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature S N·m 1	Reference code		
according to IEC 750 Tightening torque / of the screws in the bracket / maximum Ambient temperature	according to DIN EN 61346-2		S
Ambient temperature			S
	Tightening torque / of the screws in the bracket / maximum	N⋅m	1
• during operating °C -25 +70	Ambient temperature		
	during operating	°C	-25 +70

during storage	°C	-40 +80
Protection class IP		IP66
climatic class / during the operating phase / according to EN 60721		3K6
Mounting type		front mounting
Shape / of the installation hole		round
Installation width	mm	29.5
Mounting diameter	mm	22
Mounting height	mm	12
Mounting depth	mm	63

Certificates/ approvals:

General Product Approval

Declaration of Conformity

Test Certificates

(J) CSA







Special Test Certificate

Shipping Approval











other

Confirmation

other

Environmental Confirmations

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

 $\underline{\text{http://www.siemens.com/industrial-controls/catalogs}}$

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator

http://www.siemens.com/cax

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

http://support.automation.siemens.com/WW/view/en/3SB3201-0BA11/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3SB3201-0BA11}}$

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