## **SIEMENS**

Product data sheet 3SB2202-2AC01



TOGGLE SWITCH, 16MM, ROUND, PLASTIC, RED, 2 SWITCH POSITIONS O-I, LATCHING, ACTUATING ANGLE 62 DEGREES 1NO

Actuato/ signaling device:				
Design of the product		Complete unit round		
Design of the operating mechanism		selector switch		
Functionality / of the actuator		Latching		
Type of unlocking device		rotate-to-unlatch mechanism		
Color / of the activation element		Red		
Material / of the activation element		plastic		
Number of switching positions		2		
Actuating angle				
• clockwise	o	62		
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		tab terminals		

Number of switching elements	1
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	1
Number of changeover contacts / for auxiliary contacts	0
Product function / positive opening	No
Number of lampholders	0
Product extension / optional / fluorescent materials	No

Poperating voltage / rated value	General technical details:				
• minimum  • maximum  Operating current  • at AC-12  • at 24 V / rated value • at 60 V / rated value • at 230 V / rated value • at 230 V / rated value • at 60 V / rated value • at 24 V / rated value • at 250 V / rated val	Voltage type / of operating voltage		AC/DC		
• maximum         V         250           Operating current         **at AC-12           • at AC-12         **at AC-12           • at 24 V / rated value         A         10           • at 60 V / rated value         A         10           • at 230 V / rated value         A         10           • at AC-15         ***A 4         4           • at 24 V / rated value         A         4           • at 60 V / rated value         A         4           • at 230 V / rated value         A         4           • at 24 V / rated value         A         6           • at 60 V / rated value         A         5           • at 10 V / rated value         A         5           • at 20 V / rated value         A         1           • at 20 V / rated value         A         1           • at 20 V / rated value         A         3           • at 20 V / rated value         A         1.2           • at 110 V / rated value         A         0.3           • at 230 V / rated value         A         0.3           • at 230 V / rated value         A         0.3           • at 230 V / rated value         A         0.3           • at	Operating voltage / rated value				
Operating current         • at AC-12           • at AC-12         • at 24 V / rated value         A 10           • at 60 V / rated value         A 10           • at 110 V / rated value         A 10           • at 230 V / rated value         A 4           • at AC-15         A 4           • at 24 V / rated value         A 4           • at 100 V / rated value         A 4           • at 110 V / rated value         A 4           • at 230 V / rated value         A 5           • at 60 V / rated value         A 5           • at 110 V / rated value         A 2.5           • at 100-13         A 1           • at 24 V / rated value         A 1           • at 27 V / rated value         A 1           • at 20 V / rated value         A 3           • at 20 V / rated value         A 1.2           • at 10 V / rated value         A 0.3           • at 230 V / rated value         A 0.3           • at 230 V / rated value         A 0.3           • at 230 V / rated value         A 0.3           • at 230 V / rated value         A 0.3           • at 230 V / rated value         A 0.3           • at 230 V / rated value         A 0.3           • at 230 V / rated value <td< th=""><th>• minimum</th><th>V</th><th>5</th></td<>	• minimum	V	5		
* at AC-12       * at 24 V / rated value       A       10         * at 60 V / rated value       A       10         * at 110 V / rated value       A       10         * at 230 V / rated value       A       10         * at AC-15       * * * * * * * * * * * * * * * * * * *	• maximum	V	250		
* at 24 V / rated value  * at 60 V / rated value  * at 110 V / rated value  * at 230 V / rated value  * at 230 V / rated value  * at 24 V / rated value  * at 60 V / rated value  * at 60 V / rated value  * at 110 V / rated value  * at 110 V / rated value  * at 230 V / rated value  * at 24 V / rated value  * at 60 V / rated value  * at 60 V / rated value  * at 24 V / rated value  * at 5  * at 110 V / rated value  * at 60 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 24 V / rated value  * at 24 V / rated value  * at 25  * at 24 V / rated value  * at 20 V / rated value  * at 20 V / rated value  * at 230 V / rated value  * at 30 0.3  **Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-6  **Operating cycles / maximum  **Mechanical operating cycles as operating time / typical	Operating current				
* at 60 V / rated value	• at AC-12				
• at 110 V / rated value       A       10         • at 230 V / rated value       A       10         • at AC-15       A       4         • at 24 V / rated value       A       4         • at 110 V / rated value       A       4         • at 230 V / rated value       A       4         • at DC-12       A       6         • at 60 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       1         • at 60 V / rated value       A       3         • at 60 V / rated value       A       1.2         • 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 60068-2-6       20 200 Hz: 5g         Operating cycles / maximum       1/h       1,000         Mechanical operating cycles as operating time / typical       300,000	• at 24 V / rated value	Α	10		
• at 230 V / rated value • at AC-15 • at 24 V / rated value • at 60 V / rated value • at 110 V / rated value • at 230 V / rated value • at 230 V / rated value • at 24 V / rated value • at 250 V / rated value • at 24 V / rated value • at 24 V / rated value • at 250 V / rated value • at 110 V / rated value • at 250 V / rated value • at 27 V / rated value • at 27 V / rated value • at 280 V / rated value • at 290 V / rate	• at 60 V / rated value	Α	10		
• at AC-15  • at 24 V / rated value  • at 60 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 230 V / rated value  • at 24 V / rated value  • at 60 V / rated value  • at 60 V / rated value  • at 110 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 230 V / rated value  • at 230 V / rated value  • at 24 V / rated value  • at 24 V / rated value  • at 20 V / rated value  • at 3 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	• at 110 V / rated value	Α	10		
<ul> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>at 24 V / rated value</li> <li>at 230 V / rated value</li> <li>at 200 V / rated value</li> <l< th=""><td>• at 230 V / rated value</td><td>Α</td><td>10</td></l<></ul>	• at 230 V / rated value	Α	10		
<ul> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at DC-12</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>at 24 V / rated value</li> <li>at 25</li> <li>at 230 V / rated value</li> <li>at 24 V / rated value</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 24 V / rated value</li> <li>at 24 V / rated value</li> <li>at 20 V / rated value</li> <li>at 230 V / rated value</li> <li>at 200 V / rated value</li></ul>	• at AC-15				
• at 110 V / rated value  • at 230 V / rated value  • at DC-12  • at 24 V / rated value  • at 60 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 24 V / rated value  • at 60 V / rated value  • at 110 V / rated value  • at 24 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 230 V / rated value  • at 30 V / rated value  • at 250 V / rated value  • at 270 V / rated value  • at 280 V / rated value  • at 290 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 20 V / ra	• at 24 V / rated value	Α	4		
• at 230 V / rated value  • at DC-12  • at 24 V / rated value  • at 60 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 230 V / rated value  • at 230 V / rated value  • at 24 V / rated value  • at 60 V / rated value  • at 230 V / rated value  • at 24 V / rated value  • at 110 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 30 V / rated value  • at 230 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • a	• at 60 V / rated value	Α	4		
• at DC-12  • at 24 V / rated value  • at 60 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  • at 24 V / rated value  • at 60 V / rated value  • at 60 V / rated value  • at 110 V / rated value  • at 110 V / rated value  • at 230 V / rated value  • at 25  • A  • D  • A  • A  • A  • A  • A  • A	• at 110 V / rated value	Α	4		
<ul> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>at DC-13</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 240 V / rated value</li> <li>at 240 V / rated value</li> <li>at 240 V / rated value</li> <li>at 200 V / rated value</li> <li>at 200</li></ul>	• at 230 V / rated value	Α	4		
<ul> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at DC-13</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 200 description of 10 descripti</li></ul>	• at DC-12				
<ul> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at DC-13</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>A 0.7</li> <li>at 230 V / rated value</li> <li>A 0.3</li> <li>Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-27</li> <li>Resistance against vibration / according to IEC 60068-2-6</li> <li>20 200 Hz: 5g</li> <li>Operating cycles / maximum</li> <li>1/h 1,000</li> <li>Mechanical operating cycles as operating time / typical</li> <li>300,000</li> </ul>	• at 24 V / rated value	Α	6		
<ul> <li>at 230 V / rated value</li> <li>at DC-13</li> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>A 0.7</li> <li>at 230 V / rated value</li> <li>A 0.3</li> <li>Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-27</li> <li>Resistance against vibration / according to IEC 60068-2-6</li> <li>20 200 Hz: 5g</li> <li>Operating cycles / maximum</li> <li>1/h 1,000</li> <li>Mechanical operating cycles as operating time / typical</li> <li>300,000</li> </ul>	• at 60 V / rated value	Α	5		
at DC-13  at 24 V / rated value  at 60 V / rated value  at 110 V / rated value  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 60068-2-27  Resistance against vibration / according to IEC 60068-2-6  Operating cycles / maximum  1/h 1,000  Mechanical operating cycles as operating time / typical  300,000	• at 110 V / rated value	Α	2.5		
<ul> <li>at 24 V / rated value</li> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 230 V / rated value</li> <li>A 0.3</li> <li>Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-27</li> <li>Resistance against vibration / according to IEC 60068-2-6</li> <li>Operating cycles / maximum</li> <li>1/h 1,000</li> <li>Mechanical operating cycles as operating time / typical</li> <li>3 3 4 3 4 3 4 4 5 4 5 4 5 4 5 4 5 4 5 4</li></ul>	• at 230 V / rated value	Α	1		
<ul> <li>at 60 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>A 0.3</li> <li>Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-27</li> <li>Resistance against vibration / according to IEC 60068-2-6</li> <li>Operating cycles / maximum</li> <li>1/h 1,000</li> <li>Mechanical operating cycles as operating time / typical</li> <li>A 1.2</li> <li>A 0.7</li> <li>A 0.3</li> <li>C= 50g</li> <li>20 200 Hz: 5g</li> <li>300,000</li> <li>300,000</li> </ul>	• at DC-13				
<ul> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>A 0.3</li> <li>Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-27</li> <li>Resistance against vibration / according to IEC 60068-2-6</li> <li>Operating cycles / maximum</li> <li>1/h 1,000</li> <li>Mechanical operating cycles as operating time / typical</li> <li>300,000</li> </ul>	• 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  1/h  1,000  Mechanical operating cycles as operating time / typical  300,000	• at 60 V / rated value	Α	1.2		
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  300,000	• at 110 V / rated value	Α	0.7		
Resistance against vibration / according to IEC 60068-2-6  Operating cycles / maximum  Mechanical operating cycles as operating time / typical  20 200 Hz: 5g  1/h  1,000  300,000	• at 230 V / rated value	Α	0.3		
Operating cycles / maximum  1/h  1,000  Mechanical operating cycles as operating time / typical  300,000	Resistance against shock / for devices without incandescent lamp / according to IEC 60068-2-27		<= 50g		
Mechanical operating cycles as operating time / typical 300,000	Resistance against vibration / according to IEC 60068-2-6		20 200 Hz: 5g		
	Operating cycles / maximum	1/h	1,000		
Reference code	Mechanical operating cycles as operating time / typical		300,000		
	Reference code				

according to DIN EN 61346-2		S
<ul> <li>according to DIN 40719 extended according to IEC 204-2 / according to IEC 750</li> </ul>		S
Tightening torque / of the screws in the bracket / maximum	N⋅m	0.4
Ambient temperature		
during operating	°C	-25 +70
during storage	°C	-40 +80
Protection class IP		IP65
climatic class / during the operating phase / according to EN 60721		3K6
Mounting type		front mounting
Shape / of the installation hole		round
Installation width	mm	19
Mounting diameter	mm	16
Mounting height	mm	17
Mounting depth	mm	50

## Certificates/ approvals:

General Product Approval Declaration of Conformity Test Certificates







Special Test Certificate

other

Confirmation

other

Environmental Confirmations

## **Further information:**

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

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/3SB2202-2AC01/all

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SB2202-2AC01

last change: Jul 7, 2014