## **SIEMENS**

Product data sheet 3SB2203-1AC01



EMERGENCY-STOP MUSHROOM PUSHBUTTON, 16MM, ROUND, PLASTIC, RED, LATCHING, ROTATE-TO-UNLATCH MECHANISM, 1NC, WITH YELLOW BACKING PLATE, INSCRIPTION EMERGENCY-STOP

Actuato/ signaling device:		
Design of the product	Complete unit round with positive latching in accordance with ISO 13850	
Design of the operating mechanism	Emergency stop mushroom pushbutton	
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	
Product component / front ring	No	
Product function / EMERGENCY STOP function	Yes	

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	1	
Number of NO contacts / for auxiliary contacts	0	
Number of changeover contacts / for auxiliary contacts	0	

Product function / positive opening	Yes
Number of lampholders	0
Product extension / optional / fluorescent materials	No

Accessories:		
Marking / of backing plate	Yellow backing plate, in	scription "NOT-HALT"

Cental technical details:         AC/DC           Operating voltage / rated value			
Operating voltage / rated value         V         5           • minimum         V         5           • maximum         V         250           Operating current           • at AC-12         • at 24 V / rated value         A         10           • at 60 V / rated value         A         10         • at 10 V / rated value           • at 320 V / rated value         A         10         • at 24 V / rated value           • at 24 V / rated value         A         4         • at 24 V / rated value           • at 230 V / rated value         A         4         • at 230 V / rated value           • at 24 V / rated value         A         5         • at 24 V / rated value         A         5         • at 24 V / rated value         A         5         • at 230 V / rated value         A         5         • at 230 V / rated value         A         1         • at 250 V / rated value         A         1         • at 250 V / rated value         A         1         • at 25 V / rated value         A         1         • at 230 V / rated value         A         1         • 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			10/00
• minimum         V         5           • maximum         V         250           Operating current           • at AC-12         • A         10           • at 24 V / rated value         A         10           • at 60 V / rated value         A         10           • at 230 V / rated value         A         10           • 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         4           • at 24 V / rated value         A         5           • at 100 V / rated value         A         5           • at 100 V / rated value         A         5           • at 24 V / rated value         A         5           • at 230 V / rated value         A         1           • at 20-13         A         1         2           • at 24 V / rated value         A         3         3           • at 20 V / rated value         A         3         3           • at 230 V / rated value         A         1         2           • at 230 V / rated value         A         <			AC/DC
• maximum         V         250           Operating current			
Operating current         • at AC-12           • at AC-12         • at 24 V / rated value           • at 60 V / rated value         A           • at 110 V / rated value         A           • at 230 V / rated value         A           • at 24 V / rated value         A           • at 24 V / rated value         A           • at 60 V / rated value         A           • at 230 V / rated value         A           • at 250 V / rated value         A           • at 24 V / rated value         A           • at 60 V / rated value         A           • at 230 V / rated value         A           • at 24 V / rated value         A           • at 230 V / rated value </td <td></td> <td></td> <td></td>			
• at AC-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 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 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 V / rated value • at 26 V / rated value • at 27 V / rated value • at 28 V / rated value • at 29 V / rated value • at 20 V		V	250
• at 24 V / rated value       A       10         • at 110 V / rated value       A       10         • at 230 V / rated value       A       10         • at 24 V / rated value       A       4         • at 60 V / rated value       A       4         • at 110 V / rated value       A       4         • at 230 V / rated value       A       4         • at 24 V / rated value       A       6         • at 24 V / rated value       A       5         • at 24 V / rated value       A       5         • at 230 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       3         • at 20 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 60068-2-27       20 200 Hz: 5g         Operating cycles / maximum       1/h       1,000         Mechanical operating cycles as operating time / typical       10,000,000			
• at 60 V / rated value       A       10         • at 110 V / rated value       A       10         • at 230 V / rated value       A       10         • at AC-15			
• at 110 V / rated value       A       10         • at 230 V / rated value       A       10         • at AC-15			
• 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 230 V / rated value  • at 24 V / rated value  • at 24 V / rated value  • at 24 V / rated value  • at 110 V / rated value  • at 25 C C C C C C C C C C C C C C C C C C			
• 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 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 25   • at 24 V / rated value  • at 25   • at 24 V / rated value  • at 10 V / rated value  • at 20 V / rated value  • at 30 V / rated value  • at 30 V / rated value  • at 30 V / rated value  • at 20 V / rated value  • at 110 V / rated value  • at 20 V / rated value  • at 110 V / rated value  • at 110 V / rated value  • at 20 V / rated value  •			
• at 24 V / rated value       A       4         • at 60 V / rated value       A       4         • at 110 V / rated value       A       4         • at 230 V / rated value       A       6         • at 60 V / rated value       A       5         • at 110 V / rated value       A       2.5         • at 230 V / rated value       A       1         • at DC-13       A       1.2         • at 60 V / rated value       A       3         • at 24 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 60068-2-27       C= 50g         Resistance against vibration / according to IEC 60068-2-6       20 200 Hz: 5g         Operating cycles / maximum       1/h       1,000         Mechanical operating cycles as operating time / typical       10,000,000		Α	10
• at 60 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 24 V / rated value       A       5         • at 110 V / rated value       A       1         • at 230 V / rated value       A       1         • at DC-13       A       1         • at 24 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 60068-2-27       <= 50g			
• at 110 V / rated value       A       4         • at 230 V / rated value       A       4         • at DC-12       A       6         • at 24 V / rated value       A       5         • at 110 V / rated value       A       2.5         • at 230 V / rated value       A       1         • at DC-13       A       1         • at 24 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 60068-2-27       <= 50g		Α	4
• at 230 V / rated value       A       4         • at DC-12       A       6         • at 24 V / rated value       A       5         • at 60 V / rated value       A       2.5         • at 230 V / rated value       A       1         • at DC-13       A       1         • at 24 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 60068-2-27       <= 50g		Α	4
• at DC-12       • at 24 V / rated value       A       6         • at 60 V / rated value       A       5         • at 110 V / rated value       A       2.5         • at 230 V / rated value       A       1         • at DC-13       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 60068-2-27       <= 50g	• 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 100 V / rated value</li> <li>at 100 V / rated value</li> <li>at 110 V / rated value</li> <li>at 230 V / rated value</li> <li>at 200 V / rated value</li> <li>at 200</li></ul>		Α	4
<ul> <li>at 160 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 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 250 V / rated value</li> <li>at 200 Hz: 5g</li> <li>at 200 V / 200 Hz: 5g</li> <li>at 200 V / 200 V</li></ul>			
<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 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>Reference code</li> </ul>	at 24 V / rated value	Α	6
at 230 V / rated value  at DC-13  at 24 V / rated value  at 60 V / rated value  at 110 V / rated value  at 230 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 60068-2-27  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	at 60 V / rated value	Α	
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  Reference code	• 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>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>Reference code</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 0.7</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>Reference code</li> </ul>	• at DC-13		
• at 110 V / rated value  • 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	• at 24 V / rated value	А	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  Reference code	• 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  Reference code	• at 110 V / rated value	Α	0.7
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  10,000,000	• at 230 V / rated value	Α	0.3
Operating cycles / maximum  1/h  1,000  Mechanical operating cycles as operating time / typical  Reference code  1/h  1,000  10,000,000	=		<= 50g
Mechanical operating cycles as operating time / typical 10,000,000  Reference code	Resistance against vibration / according to IEC 60068-2-6		20 200 Hz: 5g
Reference code	Operating cycles / maximum	1/h	1,000
	Mechanical operating cycles as operating time / typical		10,000,000
• according to DIN EN 61346-2	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	28.5
Mounting diameter	mm	16
Mounting height	mm	21
Mounting depth	mm	50

## Certificates/ approvals:

**General Product Approval** 

Declaration of Conformity

**Test Certificates** 

**(W)** 

EAC



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

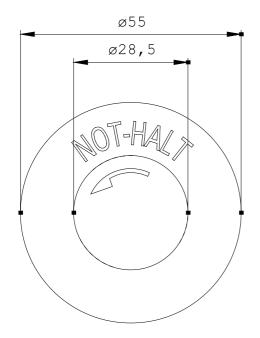
http://www.siemens.com/cax

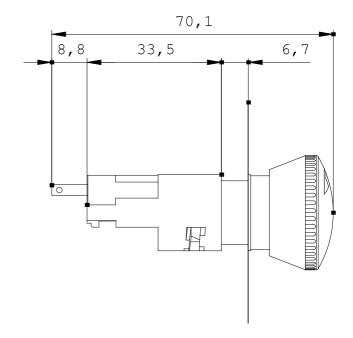
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3SB2203-1AC01/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3SB2203-1AC01}$ 





last change: Jul 7, 2014