SIEMENS

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

Design of the product	Complete unit round with positive latching in accordance with ISO 13850
Enclosure	
Number of command points	1
Actuator	
Design of the operating mechanism	Emergency stop mushroom pushbutton
Manner of function of the actuating element	Latching
Product extension optional Light source	No
Color	
 of the actuating element 	Red
Material of the actuating element	plastic
Type of unlocking device	rotate-to-unlatch mechanism
Number of switching positions	2
Front ring	
Product component front ring	No
Holder	
Material of the holder	Plastic

Number of switching elements 0	Contact block/ lampholder	
Product function positive opening EMERGENCY STOP function positive opening Emergency	Number of lampholders	0
Product function • positive opening Yes • EMERGENCY STOP function Yes • Of the operating voltage AC/DC • Of the operating voltage AC/DC Protection class IP IP65 Vibration resistance • acc. to IEC 60068-2-6 20 200 Hz: 5g Operating frequency maximum 1000 1/h Mechanical service life (switching cycles) • typical 10000 000 Equipment marking • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 • acc. to DIN EN 61346-2 S • acc. to DIN EN 61346-2 S • acc. to DIN EN 81346-2 S • rated value 5 250 V Auxiliary circuit Number of NC contacts • for auxiliary contacts 1 Number of NC contacts • for auxiliary contacts 0 Operating current at AC-12 • at 24 V rated value 10 A • at 110 V rated value 10 A • at 230 V rated value 4 A • at 230 V rated value 4 A • at 24 V rated value 4 A • at 230 V rated value 4 A • at 24 V rated value 4 A • at 230 V rated value 4 A • at 24 V rated value 4 A • at 250 V rated value 6 A • at 25	Number of switching elements	1
• positive opening • EMERGENCY STOP function Type of voltage • of the operating voltage • of the operating voltage Protection class IP Vibration resistance • acc. to IEC 60068-2-6 Operating frequency maximum Mechanical service life (switching cycles) • typical 1 0000 000 Equipment marking • acc. to IDN 40719 extended according to IEC 204-2 acc. to IEC 750 • acc. to DIN EN 81346-2 • acc. to DIN EN 81346-2 S Operating voltage • rated value • rated value 1 0 000 000 Auxiliary circuit Number of NC contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary	General technical data	
• EMERGENCY STOP function Type of voltage • of the operating voltage • of the operating voltage • acc. to IEC 60068-2-6 Operating frequency maximum Mechanical service life (switching cycles) • typical • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 S Operating voltage • rated value • for auxiliary contacts • for auxiliar	Product function	
Type of voltage	 positive opening 	Yes
• of the operating voltage	 EMERGENCY STOP function 	Yes
Protection class IP	Type of voltage	
Vibration resistance • acc. to IEC 60068-2-6 20 200 Hz: 5g Operating frequency maximum 1 000 1/h Mechanical service life (switching cycles) • typical • typical 10 000 000 Equipment marking • acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 \$ • acc. to DIN EN 81346-2 \$ • acc. to DIN EN 81346-2 \$ • acc. to DIN EN 81346-2 \$ • rated value 5 250 V Auxiliary circuit *** Number of NC contacts • for auxiliary contacts 1 • for auxiliary contacts 0 • for auxiliary contacts 10 A • at 24 V rated value 10 A • at 24 V rated value 10 A • at 230 V rated value 4 A • at 24 V rated value 4 A • at 24 V rated value <	 of the operating voltage 	AC/DC
■ acc. to IEC 60068-2-6 Operating frequency maximum 1 000 1/h Mechanical service life (switching cycles) • typical	Protection class IP	IP65
Departing frequency maximum 1 000 1/h	Vibration resistance	
Mechanical service life (switching cycles)	• acc. to IEC 60068-2-6	20 200 Hz: 5g
● typical 10 000 000 Equipment marking ● acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 ● acc. to DIN EN 61346-2 S S S S S S S S S S S S S S S S S S S	Operating frequency maximum	1 000 1/h
Equipment marking	Mechanical service life (switching cycles)	
	• typical	10 000 000
204-2 acc. to IEC 750 • acc. to DIN EN 61346-2 • acc. to DIN EN 81346-2 • acc. to DIN EN 81346-2 S Operating voltage • rated value 5 250 V Auxiliary circuit Number of NC contacts • for auxiliary contacts • for	Equipment marking	
● acc. to DIN EN 81346-2 S Operating voltage • rated value ● rated value 5 250 V Auxiliary circuit Number of NC contacts ● for auxiliary contacts 0 Number of CO contacts 0 ● for auxiliary contacts 0 Operating current at AC-12 0 ● at 24 V rated value 10 A ● at 60 V rated value 10 A ● at 230 V rated value 10 A ● at 230 V rated value 10 A ● at 24 V rated value 4 A ● at 24 V rated value 4 A ● at 230 V rated value 4 A ● at 230 V rated value 4 A ● at 230 V rated value 4 A ● at 24 V rated value 4 A ● at 24 V rated value 4 A ● at 24 V rated value 6 A	_	S
Operating voltage • rated value 5 250 V Auxiliary circuit Number of NC contacts • for auxiliary contacts 0 Operating current at AC-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	• acc. to DIN EN 61346-2	S
	• acc. to DIN EN 81346-2	S
Auxiliary circuit Number of NC contacts • for auxiliary contacts 0 Operating current at AC-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 24 V rated value • at 24 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 210 V rated value • at 210 V rated value • at 230 V rated value • at 24 V rated value • at 230 V rated value • at 24 V rated value	Operating voltage	
Number of NC contacts • for auxiliary contacts 0 Operating current at AC-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 230 V rated value • at 24 V rated value	• rated value	5 250 V
• for auxiliary contacts 0 Operating current at AC-12 • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 230 V rated value 10 A • at 24 V rated value 10 A • at 24 V rated value 4 A • at 110 V rated value 4 A • at 230 V rated value • at 24 V rated value 6 A	Auxiliary circuit	
Number of NO contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts • for auxiliary contacts O Operating current at AC-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 230 V rated value • at 24 V rated value • at 230 V rated value • at 230 V rated value • at 24 V rated value	Number of NC contacts	
 ● for auxiliary contacts ● for auxiliary contacts O for auxiliary contacts Operating current at AC-12 ● at 24 V rated value ● at 60 V rated value ● at 110 V rated value ● at 230 V rated value Operating current at AC-15 ● at 24 V rated value ● at 110 V rated value ● at 24 V rated value ● at 230 V rated value ● at 24 V rated value 	 for auxiliary contacts 	1
Number of CO contacts • for auxiliary contacts Operating current at AC-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 230 V rated value • at 24 V rated value • at 230 V rated value • at 24 V rated value	Number of NO contacts	
 for auxiliary contacts Operating current at AC-12 at 24 V rated value at 60 V rated value at 110 V rated value at 230 V rated value Operating current at AC-15 at 24 V rated value at 110 V rated value Operating current at AC-15 at 24 V rated value 4 A Operating current at DC-12 at 24 V rated value 6 A 	 for auxiliary contacts 	0
Operating current at AC-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 10 A Operating current at AC-15 • at 24 V rated value • at 110 V rated value 4 A • at 230 V rated value 4 A • at 230 V rated value 4 A • at 24 V rated value 4 A • at 24 V rated value 4 A Operating current at DC-12 • at 24 V rated value 6 A	Number of CO contacts	
 at 24 V rated value at 60 V rated value at 110 V rated value at 230 V rated value 10 A oat 230 V rated value oat 24 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 6 A 	• for auxiliary contacts	0
 at 60 V rated value at 110 V rated value at 230 V rated value Operating current at AC-15 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 24 V rated value at 24 V rated value 6 A 		
 at 110 V rated value at 230 V rated value 10 A Operating current at AC-15 at 24 V rated value at 110 V rated value at 230 V rated value 4 A at 230 V rated value 4 A Operating current at DC-12 at 24 V rated value 6 A 	• at 24 V rated value	
 at 230 V rated value Operating current at AC-15 at 24 V rated value at 110 V rated value at 230 V rated value 4 A at 230 V rated value 4 A Operating current at DC-12 at 24 V rated value 6 A 	• at 60 V rated value	10 A
Operating current at AC-15 • at 24 V rated value	● at 110 V rated value	
 at 24 V rated value at 110 V rated value at 230 V rated value 4 A Operating current at DC-12 at 24 V rated value 6 A 	• at 230 V rated value	10 A
 at 110 V rated value at 230 V rated value 4 A Operating current at DC-12 at 24 V rated value 6 A 	Operating current at AC-15	
at 230 V rated value Operating current at DC-12 at 24 V rated value 6 A	● at 24 V rated value	4 A
Operating current at DC-12 ● at 24 V rated value 6 A	• at 110 V rated value	4 A
• at 24 V rated value 6 A	• at 230 V rated value	4 A
	Operating current at DC-12	
• at 60 V rated value 5 A	● at 24 V rated value	6 A
	● at 60 V rated value	5 A

• at 110 V rated value	2.5 A
• at 230 V rated value	1 A
Operating current at DC-13	
• at 24 V rated value	3 A
• at 60 V rated value	1.2 A
• at 110 V rated value	0.7 A
• at 230 V rated value	0.3 A
Connections/Terminals	
Type of electrical connection	tab terminals
Type of electrical connection Tightening torque of the screws in the bracket	tab terminals 0.4 N·m
••	
Tightening torque of the screws in the bracket	
Tightening torque of the screws in the bracket Safety related data	

Safety related data	
B10 value	
 with high demand rate acc. to SN 31920 	100 000
Proportion of dangerous failures	
 with low demand rate acc. to SN 31920 	20 %
 with high demand rate acc. to SN 31920 	20 %
Failure rate [FIT]	
• with low demand rate acc. to SN 31920	100 FIT
T1 value for proof test interval or service life acc. to IEC 61508	20 y

Ambient conditions	
Ambient temperature	
during operation	-25 +70 °C
during storage	-40 +80 °C
Environmental category during operation acc. to IEC 60721	3K6

Installation/ mounting/ dimensions	
Mounting type	front mounting
Shape of the installation opening	round
Mounting diameter	16 mm
Mounting height	21 mm
Installation width	28.5 mm
Installation depth	50 mm

Accessories	
Marking of backing plate	Yellow backing plate, inscription "NOT-HALT"
Certificates/approvals	

General Product Approval Declaration of Conformity Certificates







Special Test Certificate Miscellaneous

Confirmation

other

Environmental Confirmations

Further information

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

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3SB2203-1AC01

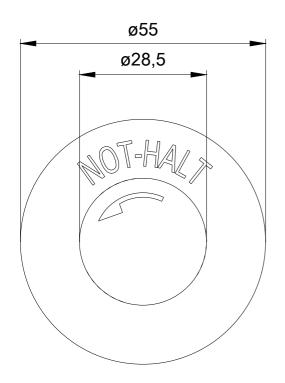
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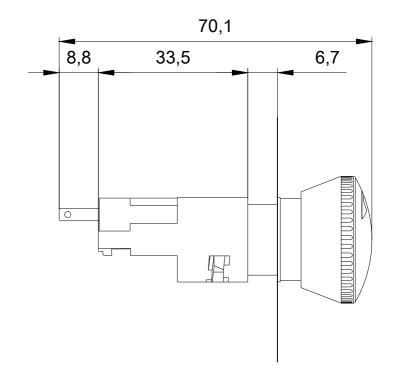
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3SB2203-1AC01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3SB2203-1AC01&lang=en





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