

# Pushbutton Units and Indicator Lights

## 3SB2, Mounting Diameter 16 mm

### Technical Specifications

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#### Technical data according to IEC 60 947-5-1 (DIN VDE 0660 Part 200)

<b>Rated insulation voltage <math>U_i</math></b>	250 V
<b>Rated operational voltage <math>U_e</math></b>	250 V AC/DC
<b>Conventional thermal current <math>I_{th}</math> = rated operational current <math>I_e/AC-12</math></b>	10 A
<b>Rated operational currents</b>	
• $I_e/AC-15$	at 24 V 4 A 60 V 4 A 110 V 4 A 230 V 4 A
• $I_e/DC-12$	at 24 V 6 A 60 V 5 A 110 V 2.5 A 230 V 1 A
• $I_e/DC-13$	at 24 V 3 A 60 V 1.5 A 110 V 0.7 A 230 V 0.3 A
Ⓢ, Ⓢ and Ⓢ data	
Rated voltage	250 V AC max.
• Contact blocks	max. 60 V; 1 W
• Indicator light, lamp with wedge base W2 x 4.6 d	
Conventional free-air thermal current	5 A
Switching capacity	B 300, R 300
<b>Contact safety</b>	
Test voltage/test current	5 V/1 mA
<b>Short-circuit protection</b> (without any welding according to DIN VDE 0660, Part 200)	
• DIAZED fuse left, utilization category gL/gG	10 A TDz, 16 A Dz
• Miniature circuit-breaker, with G characteristic acc. to DIN VDE 0641	10 A
<b>Mechanical endurance</b>	
• Pushbutton units and contact blocks	$10 \times 10^6$ operating cycles
• Actuators, rotary or maintained contact	$4 \times 10^5$ operating cycles
• Illuminated pushbuttons	$3 \times 10^6$ operating cycles
<b>Electrical endurance</b>	
with AC-15 duty	$10 \times 10^6$ operating cycles
<b>Climatic stress</b>	Climate-proof; suitable for use on board ship
<b>Ambient temperature</b>	
• using LEDs or for non-illuminated devices	-25 to +70 °C
• using illuminated devices with incandescent lamps	-25 to +60 °C
<b>Degree of protection</b> acc. to IEC 60 529 (DIN VDE 0470)	
• Connection of contact blocks and lampholders behind the front panel	IP 00
• Switchrooms of the contact blocks behind the front panel	IP 40
• Actuators and indicators	IP 65
• Actuator and indicators with protective cap	IP 67
<b>Lamps</b>	Wedge-Base W2 x 4.6 d: 6, 12, 24, 30, 48, 60 V; max. 1 W
<b>Connections</b>	
Clamp-type terminal with tab connectors for push-on ferrules to IEC 60 760	Tab connector 2 x 2.8/0.8 mm
<b>Protective measures</b>	Safety requirements are met automatically when the actuators and lens assemblies are mounted on metal front plates and housings.  When mounted in insulated enclosures, the "protective insulation" safety requirements are met.
<b>Safety from finger touch</b> to DIN VDE 0106 Part 100 and VBG 4	With voltages > AC 50 V or DC 120 V insulating sleeves must be fitted to the unassigned tab connections.
<b>Shock resistance</b> according to IEC 60 068, Part 2-27	
• Shock amplitude	≤ 50 g
• Shock duration	11 ms
• Shock form	Half-sine