

Pushbutton Units and Indicator Lights

3SB2, Mounting Diameter 16 mm

Introduction

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

Rated insulation voltage U_i	250 V
Rated operational voltage U_e	250 V AC/DC
Conventional thermal current I_{th} = rated operational current $I_e/AC-12$	10 A
Rated operational currents	
• $I_e/AC-15$	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 × 4.6 d	
Conventional free-air thermal current	5 A
Switching capacity	B 300, R 300
Contact safety	
Test voltage/test current	5 V/1 mA
Short-circuit protection (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
Mechanical endurance	
• Pushbutton units and contact blocks	10 × 10 ⁶ operating cycles
• Actuators, rotary or maintained contact	3 × 10 ⁵ operating cycles
• Illuminated pushbuttons	3 × 10 ⁶ operating cycles
Electrical endurance	
with AC-15 duty	10 × 10 ⁶ operating cycles
Climatic stress	Climate-proof; suitable for use on board ship
Ambient temperature	
• using LEDs or for non-illuminated devices	-25 to +70 °C
• using illuminated devices with incandescent lamps	-25 to +60 °C
Degree of protection 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
Lamps	Wedge-Base W2 × 4.6 d: 6, 12, 24, 30, 48, 60 V; max. 1 W
Connections	
Clamp-type terminal with tab connectors for push-on ferrules to IEC 60 760	Tab connector 2 × 2.8/0.8 mm
Protective measures	Safety requirements are met automatically when the actuators and lens assemblies are mounted <u>on metal front plates and housings</u> . When <u>mounted in insulated enclosures</u> , the "protective insulation" safety requirements are met.
Safety from finger touch 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.
Shock resistance according to IEC 60 068, Part 2-27	
• Shock amplitude	≤ 50 g
• Shock duration	11 ms
• Shock form	Half-sine