

Pushbutton Switches



Features:

- Material : Actuators are PBT. Frames are nickel plated metal
- Phenolic base

Specifications:

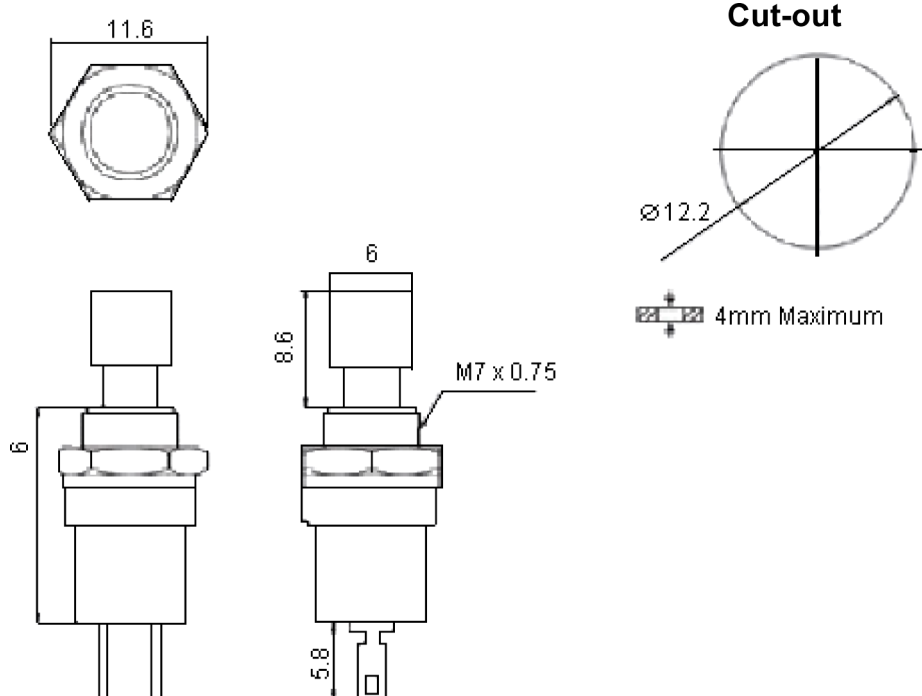
Rating	: 3A, 125V AC 1.5A, 250V AC
Contact Resistance	: 50mΩ Max.
Insulation Resistance	: 500V DC, 100MΩ Max.
Dielectric Strength	: 1,000V AC for 1 minute
Frame Body Colour	: Black
Actuator Knob Colour	: Black and Red

Scope:

These requirements cover manually and mechanically operable special-use switches:

That is for use on direct current as well as on alternating current only.

For which the load ratings do not exceed 60 amperes at 250V or a lower potential and 30 amperes or 2 horsepower at 600V or a lower potential.



Dimensions : Millimetres

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Electrical Ratings:

Item	Requirements
Rated voltage and current	(base on switch type)
Contact resistance (new state)	<100mΩ (5V, 1A DC)
Dielectric strength (new state)	>1,000V >2,500V (10mA between the contacts)
Insulation resistance (new state)	>100MΩ (500V DC between the open contacts)
Inrush current	50A/3msec (capacitive load)
Electrical life endurance	>6,000 operations Volt drop: <100mV >10,000 operations
Temperature rise at the terminals (according to electrical life endurance)	<30°C - 6,000 operations <45°C - 10,000 operations (ambient conditions : 25 ±2°C and 65 ±5%R.H)

Mechanical Characteristics:

Actuating force	(base on switch type)
Operating life endurance	>100,000 operations
Terminal strength	>2.5kg - solder terminal >6.8kg - plug-in/screw terminal
Solderability of terminals	Maximum 350°C/3sec (no pressure may be exerted on the terminals when soldering by hand)

Environmental:

Ambient temperature	-20°C to +65°C
Humidity	Maximum 85%
Salt spray test	No remarkable rust in metal parts (5% salt/35°C 24hrs)
Shock test	No mechanical defect or damage (100g/10msec X, Y, Z 3 times)
Vibration test	No mechanical defect damage (10-55Hz/1.5mm/X, Y, Z 2hrs)

Part Number Table

Description	Part Number
Switches	R13-24B-05-BR
	R13-24BL-05-BR

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