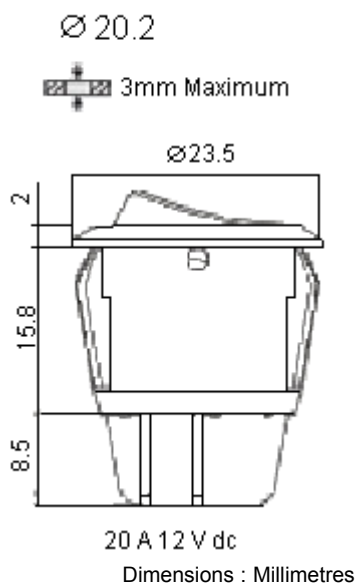




Scope

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 250 volts or a lower potential and 30 amperes or 2 horsepower at 600 volts or a lower potential

Electrical Ratings

Item	Requirements
Rated voltage and current	(base on switch type)
Contact resistance (new state)	<100 mΩ (5 V, 1 A dc)
Dielectric strength (new state)	>1,000 V >2,500 V (10 mA between the contacts)
Insulation resistance (new state)	>100 MΩ (500 V dc between the open contacts)
Inrush current	50 A / 3 msec (capacitive load)
Electrical life endurance	>6,000 operations Volt drop : <100 mV >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% RH)

Mechanical Characteristics

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

Environmental

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

Part Number Table

Description	Part Number
SWITCH, ROCKER, SPST, ON-OFF	R13-112A-02-BB-0A
SWITCH, ROCKER, SPST, ON-OFF, MOM	R13-112F-02-BB-0A
SWITCH, ROCKER, SPST, ON-OFF	R13-112A5-02-WW-0A
SWITCH, ROCKER, SPST, ON-OFF	R13-112A-02-BB-3A
SWITCH, ROCKER, SPST, ON-OFF, MOM	R13-112F-02-BB-3A
SWITCH, ROCKER, SPST, ON-OFF	R13-112A5-02-WW-3A
SWITCH, ROCKER, DPST, ON-OFF	R13-244A-02-BB-0A
SWITCH, ROCKER, DPST, ON-OFF	R13-244A5-02-WW-0A
SWITCH, ROCKER, DPST, ON-OFF	R13-244A-02-BB-3A
SWITCH, ROCKER, DPST, ON-OFF	R13-244A5-02-WW-3A
SWITCH, ROCKER, SPST, ON-OFF, IP65	R13-112A8-02-BB-0A
SWITCH, ROCKER, SPST, IP65, MOM	R13-112F8-02-BB-0A
SWITCH, ROCKER, SPST, ON-OFF, IP65	R13-112A8-02-BB-2A

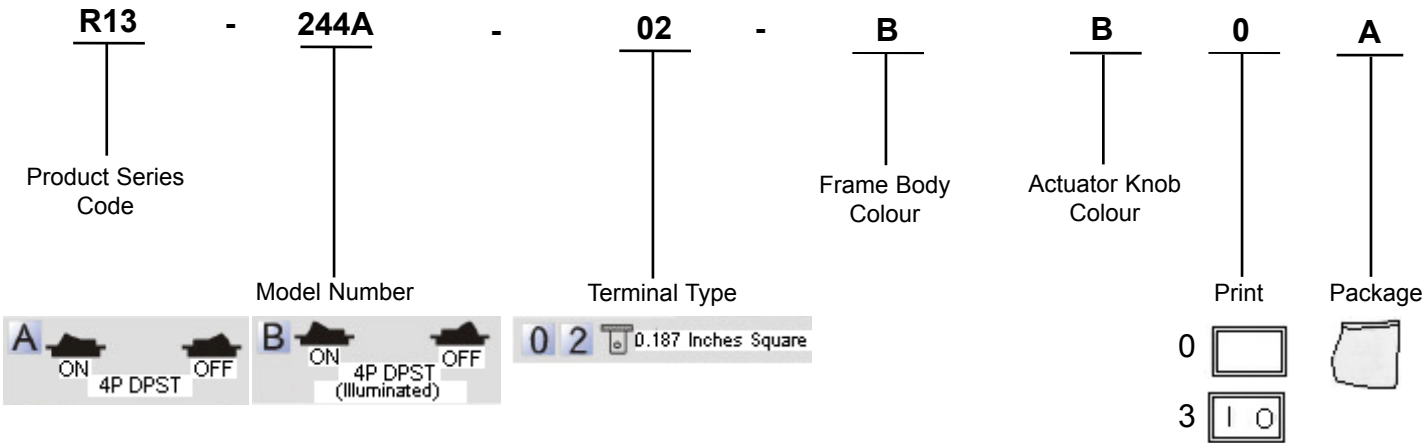
Rocker Switches



Part Number Table

Description	Part Number
SWITCH, ROCKER, SPST, IP65, MOM	R13-112F8-02-BB-2A
SWITCH, ROCKER, SPST, RED ILLUM.	R13-112B-02-BR-0A
SWITCH, ROCKER, SPST, GREEN ILLUM.	R13-112B-02-BG-0A
SWITCH, ROCKER, DPST, RED ILLUM.	R13-244B-02-BR-0A
SWITCH, ROCKER, DPST, GREEN ILLUM.	R13-244B-02-BG-0A
SWITCH, ROCKER, SPST, RED, IP65	R13-112B8W-02-BR-0A
SWITCH, ROCKER, SPST, GREEN, IP65	R13-112B8W-02-BG-0A
SWITCH, ROCKER, SPST, RED ILLUM.	R13-112B9-02-BBR-0A
SWITCH, ROCKER, SPST, GREEN ILLUM.	R13-112B9-02-BBG-0A

Part Number Explanation:



- Frame Body Colour** : B = Black and W = White
- Actuator Knob Colour** : W = White, B = Black, R = Red and G = Green
- Print** : 0 = None
- Package** : A = Bulk

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