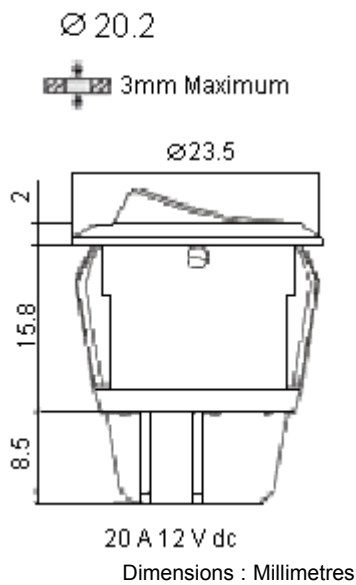




### Scope

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<br>>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<br>Volt drop : <100 mV<br>>10,000 operations                                        |
| Temperature rise at the terminals (according to electrical life endurance) | <30°C - 6,000 operations<br><45°C - 10,000 operations<br>(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<br>>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 |

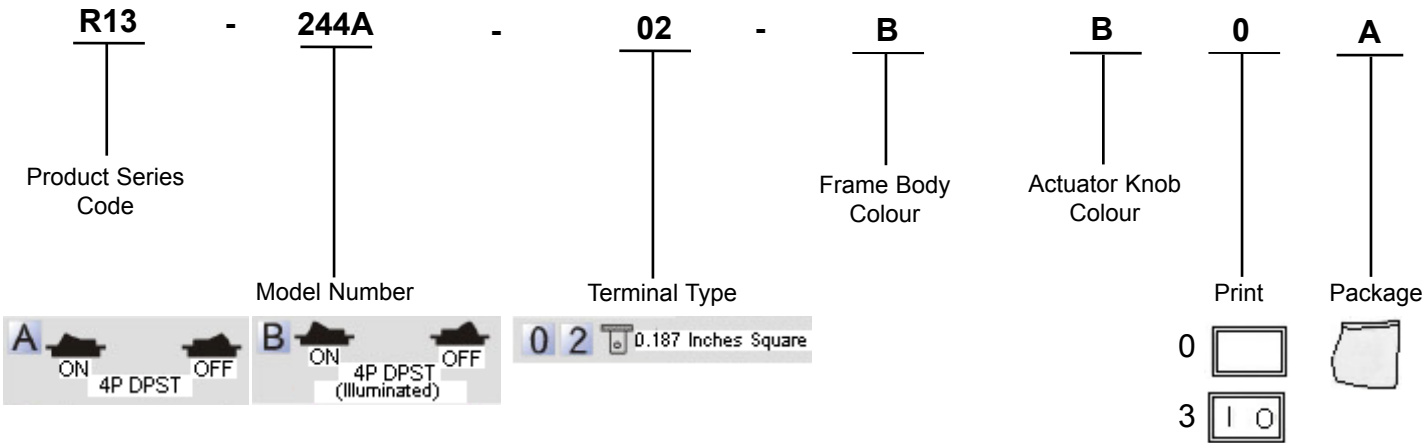
# Rocker Switches



## 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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