Rocker Switches

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)	<100mΩ (5V, 1 A 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 / 3m sec (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

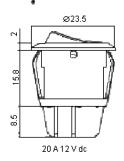| Item	Requirements
Ambient temperature	-20°C to +65°C
Humidity	Maximum 85%
Salt spray test	No remarkable rust in metal parts (5% Salt / 35°C 24 hours)
Shock test	No mechanical defect or damage (100g / 10ms X, Y, Z 3 times)
Vibration test	No mechanical defect damage (10 to 55 Hz / 1.5mm / X, Y, Z 2 hours)

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Rocker Switches

Diagram

∅ 20.2

3mm Maximum

∅ 23.5

2

15.8

8.5

20 A 12 V dc

Dimensions : Millimetres

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
Switch, Rocker, SPST, IP65, MOM	R13-112F8-02-BB-2A
Switch, Rocker, SPST, Red Illuminated	R13-112B-02-BR-0A
Switch, Rocker, SPST, Green Illuminated	R13-112B-02-BG-0A
Switch, Rocker, DPST, Red Illuminated	R13-244B-02-BR-0A
Switch, Rocker, DPST, Green Illuminated	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 Illuminated	R13-112B9-02-BBR-0A
Switch, Rocker, SPST, Green Illuminated	R13-112B9-02-BBG-0A

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