

Table 111.1
Parameters for endurance test

Revised Table 111.1 effective December 12, 2004

Device used for	Closed test circuit voltage ratio ^a	Power factor
AC Motor Load ^b	1.1 – 1.0	0.75 – 0.8
AC General Use	1.1 – 1.0	0.75 – 0.8
DC Motor Load ^b	0.55 – 0.5	1.0
DC General Use	1.1 – 1.0	1.0

NOTE – For all devices the:

Make/break current is to be 100 percent of rated current,

Number of operations is to be 6000 cycles,

Each cycle is to be 1 second on and 9 seconds off.

^a Ratio: test value/rated value.

^b When the switch is provided with an overload relay, or some similar means that causes the switch contacts to open in response to the stalled-rotor current of the motor, then the test current voltage, power factor, operations rate, and number of operations are to be in accordance with Section 45. A mechanical adjustment, such as that of a float-, or lever-, of a float-operated switch or tool-operated adjustment for the pressure setting of a pressure-operated switch, to set the actuation point for the switch due to liquid level or pressure is not identified as being a similar means.

112 Pressure Tests

112.1 General

112.1.1 A pressure-operated switch shall comply with the pressure test in 112.2 for enclosed devices, or 112.3 for open devices, when:

- a) The device is actuated by an external source of pressure;
- b) The device employs a Bourdon tube, a flexible metal bellows, a diaphragm, or similar device; and
- c) The maximum rated pressure is 300 psig (2069 kPa) or more.

112.1.1 revised December 12, 2002

112.1.2 Deleted December 12, 2002

112.1.3 Deleted December 12, 2002

112.1.4 Deleted December 12, 2002

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