

TABLE 1—THRESHOLD AND UL LIMITS FOR CONTINUOUS 60-Hz CURRENT AND THEIR EFFECTS

Physiological effect	Reaction	Threshold for continuous 15- to 100-Hz current (mA)	Limit used by UL for continuous 60-Hz sinusoidal current (mA)
Involuntary muscular reaction	Perception level, tingling sensation	0.5	0.51
Inability to let go (tetanized muscle)	Painful shock, freezing current, "can't let go"	10	5.0
Ventricular fibrillation	Heart rhythm affected, death may occur	35	20

Notes:

1. Ordinarily, a limit of 0.75 mA applies to stationary or fixed, cord-connected products with equipment-grounding conductors.
2. Data in column 3 is described in IEC Publication 479.
3. Table adapted from **Reference 1**.