

DESCRIPTION

PRODUCT COVERED:

USL, CNL Device Speed Switch Models M100T and M5000T for use in Class I, Groups C and D; Class II, Groups E, F, and G Hazardous Locations.

GENERAL:

The Models M100T and M5000T are complete monitoring systems that provide a feedback signal concerning shaft speed, or can be used to shut down the equipment. The difference between the M100T and M5000T is the set-point of the relay, 10-to-100 rpm and 100-to-5000 rpm respectively. The devices are permanently mounted and connected to a power supply source.

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE)

USL indicates investigation to the following standards:
UL 1203, Explosion-Proof and Dust Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations, 3rd Ed.

CNL indicates investigation to the following standards:
CSA 22.2 No. 30-M 1986, Explosion-Proof Enclosures for Use in Class I Hazardous Locations, and CSA 22.2 No. 25-M 1966, Enclosures for Use in Class II, Groups E, F, and G Hazardous Locations.

Spacings - The M100T and M5000T were evaluated to UL 508, Table 36.1.

ELECTRICAL SPACINGS:

24 and 12 Volt ratings:

Electrical spacings are at least 1/16 in. through air and over surface of insulating material between live parts and uninsulated live parts of opposite polarity, uninsulated ground parts to other than the enclosure ground terminal or exposed metal parts. The spacing between uninsulated live parts and the enclosure is at least 1/4 in.

115 and 230 Volt ratings:

Electrical spacings are at least 1/4 in. through air and 3/8 in. over surface between any uninsulated live part and an uninsulated live part of opposite polarity, uninsulated grounded parts other than the enclosure, ground terminal or exposed metal parts. The spacing between uninsulated live parts and the enclosure is at least 1/2 in.

RATINGS:

Electrical -

Input - 230 VAC 50/60 Hz, 55 mA, or
115 VAC 50/60 Hz, 55 mA, or
24 VDC, 55 mA, or
12 VDC, 55 mA

Environmental -

Ambient = -40°C to 65°C

TCode = T6

MARKINGS:

The following elements should be provided on a metal name plate or plates mechanically attached, or shall be embossed, stamped, or cast into the product:

1. Listee's name and/or registered trademark.