



Model 11 MP Series

A line of snap-action thermal protectors offering the versatility **DMP** customers have become accustomed to in a new configuration. These economical and reliable protectors have the smallest footprint among **DMP** controls designed for inductive-type loads. Three basic styles are available with various bimetallic elements to match the current and temperature sensitivity of the device to the application.

FEATURES

- ◆ Snap-action design, quick break/quick make switching action.
- ◆ Opens circuit on temperature rise (normally closed).
- ◆ Conductive bimetal construction: The bimetal carries the circuit current for maximum sensitivity under short circuit conditions.
- ◆ Extremely small footprint and low profile design.
- ◆ Available with various bimetallic elements to match sensitivity needs of the application.
- ◆ Preset calibration temperature; not adjustable in the field.
- ◆ **E-Type**: Epoxy encapsulated.
- ◆ **S-Type**: Heat-shrink mylar insulating sleeve.
- ◆ **N-Type**: Without insulating sleeve.

CONTACT RATINGS

4.5 AMPS/250 VAC (L Type Bimetal) 10,000 cycles
7.0 AMPS/250 VAC (H Type Bimetal) 3,000 cycles

UL & C-UL File No. E42562

EN 60730-2-9 File No. CA02 02987

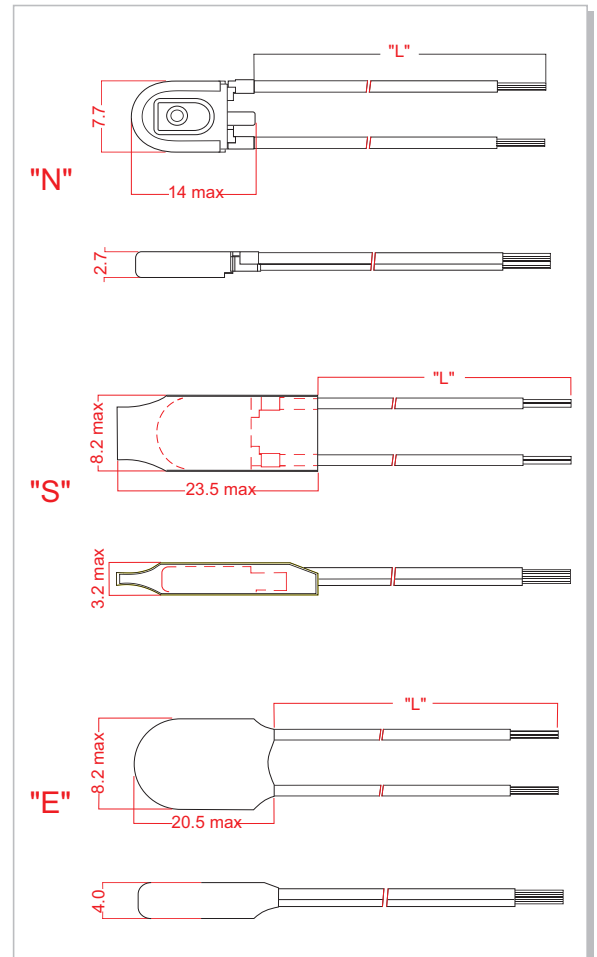
EN 60730-2-2 File No. CA02 02988

CALIBRATION TEMPERATURE RANGE

- ◆ Available from 70°C to 160°C in 5°C increments with a standard tolerance of $\pm 7^\circ\text{C}$ / $\pm 5^\circ\text{C}$ available.

STANDARD CONFIGURATION

- ◆ Standard leads are #22 gauge, UL 1332 approved, white, FEP insulation, 200°C/300V.
- ◆ Different lead lengths and colours available on request.
- ◆ Maximum lead length for E-Type is 300mm.



APPLICATIONS

Motors, Transformers, Ballasts, Solenoids and Printed Circuit Board Protection.



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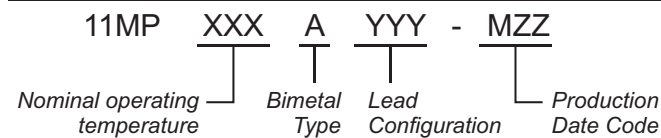
Main Application

- Shredded Pole Motor
- Control Transformers
- Electronic Ballasts
- Solenoids
- Printed Circuit Boards

DMP 11MP thermal protectors offers:

- Miniature in size.
- Individual temperature calibration
- Snap-action contacts
- Repeatability for full cycle life
- Current and Temperature sensitivity
- Epoxy coating suitable for most impregnation process
- Sleeve version ideal for on winding assembly
- Pill version for highly automated assembly
- Full flexibility on lead length
- All material certified according to ROHS.

ORDERING CODE



Electrical Characteristics

Normally - close circuit, single pole.
 Operating Temperature Range:
 70°C to 160°C (5°C step)
 Tolerance on open temperature
 ± 7°C (± 5°C on request)

Temperature Differential:
 20°C minimum

Contact Rating:

L Type 4.5 (1.6) A at 250 VAC
 H Type 7.0 (3.0) A at 250 VAC

Number of Cycles:

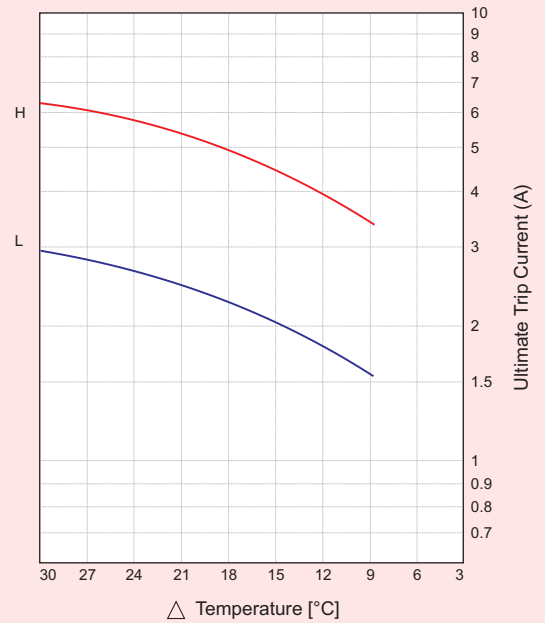
10,000 cycles at 4.5 (1.6) A at 250 VAC
 3,000 cycles at 7.0 (3.0) A at 250 VAC

Open Temperature Drift:

after Endurance max ± 10°C

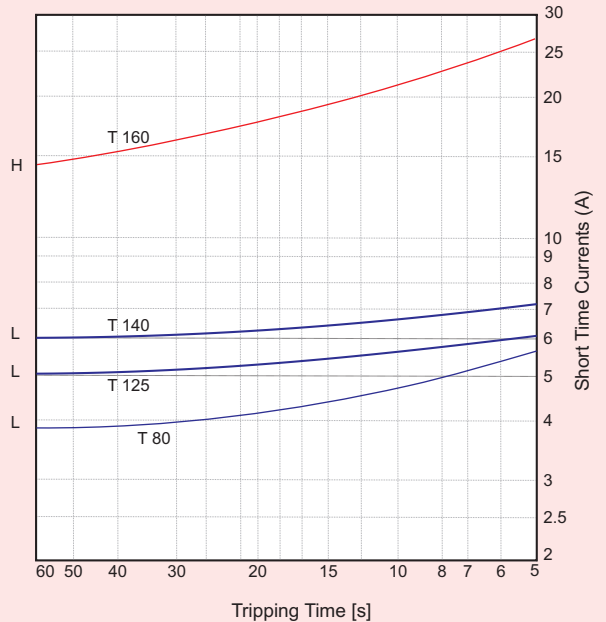
Ultimate Trip Current VS Delta Temperature

(difference between protector temperature and protector ambient temperature)
 Approximate : to be used only for selecting samples.



Average first cycle tripping time VS Current at 25°C

Approximate: to be used only for selecting samples.



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