

Product Bulletin

9700

Thermal Protector for Motor / Fluorescent ballasts and Temperature Sensing Controls



The Klixon™ 9700 protector is a field proven miniature protector developed to protect shaded pole and permanent split capacitor motors, fluorescent ballasts, solenoids, transformers and other electrical equipment against overheating.

In addition to being small and lightweight, the unit is both temperature and current sensitive. Since the 9700 is sealed to withstand varnish dipping, it can be mounted directly in windings where it can best sense the true temperature of the electrical equipment. As a result, over-temperature protection is assured.

Since the case is not electrically insulated, the protector is furnished with a durable Mylar insulating sleeve. Shrinkable and non-shrinkable sleeves are available.

Technical Characteristics

Purpose of control: thermal motor protector (TMP)

thermal ballast protector (TBP)

thermal cut-out (TCO)

Contact capacity: 250VAC 13A for TCO

250VAC 2A for TBP

Temperature range: 60°C to 150°C for TCO and TMP

60°C to 135°C for TBP

Tolerance on Open temp: +/- 5K or +/- 8K

Automatic action: Type 3C for TMP

Type 2C for TBP and TCO

Operating time: Continuous

Pollution situation: Normal

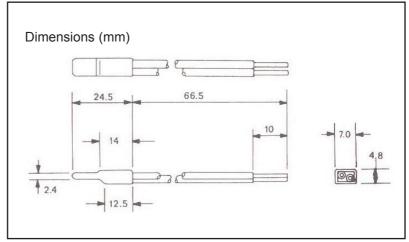
Extent of sensing element: Whole control

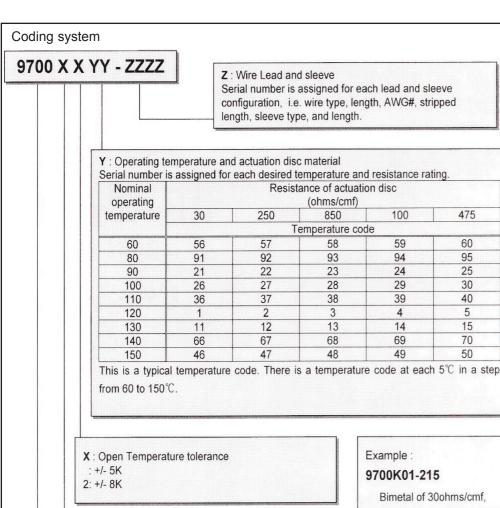
PTI of the insulation: 175

Enclosure protection degree: IP00

Key Benefits

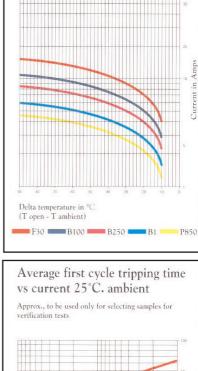
- Miniature size-compact design assures ease of installation
- Precision Calibration-temperature calibrated and inspected in controlled ambients for dependable consistent performance
- Snapaction-positive make and break assured with proven Klixon™ strip disc...contact pressure at open temperature eliminates nuisance trips due to vibration
- Sealed steel case-withstands impregnation and baking..maybe varnish dipped...prevents changes in calibration during installation





Bimetal of 30ohms/cmf, 120°C operating temperature, +/-5K tolerance with AWG#18(UL3343 125°C-600V) 66.7mm length leads, thick 0.15mm, dia. 6.9mm,

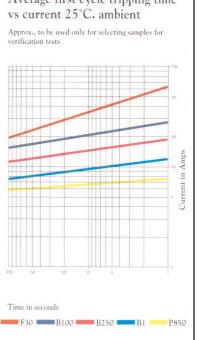
length 34mm, Mylar sleeve.



Ultimate trip current vs ambient

Approx., to be used only for selecting samples for verification tests

temperature



Movable contact Stationaly contact Code Steel + Fine silver Steel + copper + Silver Cadmium oxide K Ag-Ni + Silver Steel + copper +

Cadmium oxide Silver Cadmium oxide Н Brass + Fine silver Steel + copper + Silver Cadmium oxide Steel + Fine silver Ag-Ni + Fine silver S Brass + Fine silver Steel + Copper + Ag-Ni

Type "S" is set up for Cadmium-free contact

X: Contact material combination

9700 : Device Identification

Certifications

Agency	File number	Standard	Note
UL	E 15962	UL2111	Motor protector
ENEC	2014531.10	EN60730-2-9	Thermal Cut-Out
ENEC	2014531.10	EN60730-2-2	Thermal Motor Protector
ENEC	2014531.10	EN60730-2-3	Thermal Ballast Protector
CQC	CQC0200	2001344	

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