Sensata Technologies

9700 PROTECTOR



Autorisierter Distributor:

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9700 PROTECTOR

THERMAL PROTECTOR FOR MOTOR/FLUORESCENT BALLASTS AND TEMPERATURE SENSING CONTROLS

Introduction

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 SPECIFICATIONS

| Purpose of the 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 | | | |
| Pollition Station | Normal | | | |
| Extent of Sensing Element | Whole Control | | | |
| PTI of the Insulation | 175 | | | |
| Enclosure Protection Degree | IPOO | | | |

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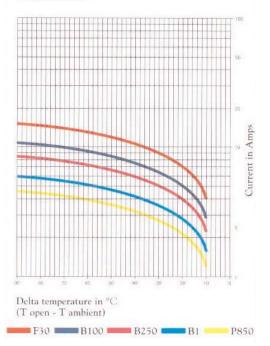
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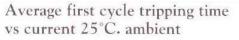
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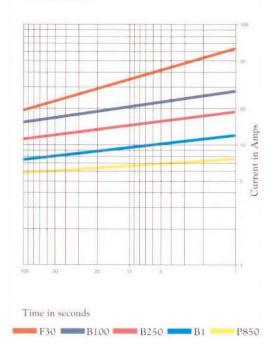
Ultimate trip current vs ambient temperature

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





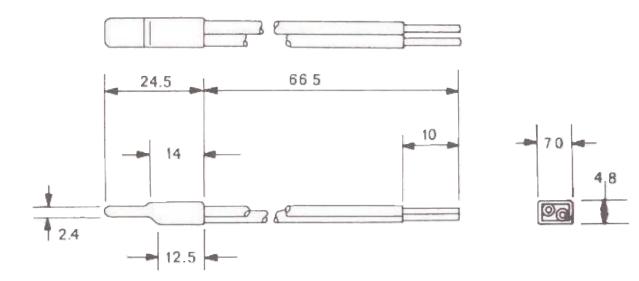
Approx., to be used only for selecting samples for verification tests



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DIMENSIONS

Dimensions in mm [Inch]



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Example : 9700K01-215

Bimetal of 30 ohms/cmf, 120°C Operating Temperature, \pm 5K Tolerance with AWG#18 (UL3343 125°C -600V), 66.7mm Length Leads, Thick 0.15mm, Dia. 6.9mm, Legnth 34mm, Mylar Sleeve.

| | | 9700 🗕 | x x | YY . | ZZZZ | |
|---------------------------|--------------------------------|---|-----------------------|------|------|--|
| Device Identificat | tion | | \top $$ | | | |
| 9700 | | | | | | |
| Contact Material | Combination —— | | | | | |
| Serial Number is ass | igned for each desired t | emperature and reista | nce rating. | | | |
| Code | Stationaly Contact | Movable Contact | | | | |
| к | AgNi + Silver Cadmium Oxide | Steel + Copper + Silver Cadmium Oxide | | | | |
| Н | Brass + Fine Silver | Steel + Copper + Silver Cadmium Oxide | | | | |
| Note: We only provide | H / K Type Devices. K type | when new parr number i | is defined and setup. | | | |
| Open Temperatur | e Tolerance —— | | | | | |
| : ± 5K, 2: ±8K | | | | | | |
| Onereting Tempe | ratura and Actuatia | n Dian Matarial | | | | |

Operating Temperature and Actuation Disc Material –

Serial Number is assigned for each desired temperature and reistance rating.

| Nominal Operating Temperature | Resistance of Actuation Disc (ohms.cmf) | | | | | |
|-------------------------------------|--|-----|-----|-----|-----|--|
| | 30 | 250 | 850 | 100 | 475 | |
| Temperature | Temperature Code | | | | | |
| 60 | 56 | 57 | 58 | 59 | 60 | |
| 80 | 91 | 92 | 93 | 94 | 95 | |
| 90 | 21 | 22 | 23 | 24 | 25 | |
| 100 | 26 | 27 | 28 | 29 | 30 | |
| 110 | 36 | 37 | 38 | 39 | 40 | |
| 120 | 1 | 2 | 3 | 4 | 5 | |
| 130 | 11 | 12 | 13 | 14 | 15 | |
| 140 | 66 | 67 | 68 | 69 | 70 | |
| 150 | 46 | 47 | 48 | 49 | 50 | |

This is a typical temperature code. There is a temperature code at each 5°C in a step from 60 to 150

Wire Lead and Sleeve

Serial number is assigned for each lead and sleeve configuration, i.e. wire type, length, AWG#, stripped length, sleeve type, and length.



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AGENCY APPROVALS & 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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