



7AM

Thermal Protectors

KEY BENEFITS

Over 3 billion sold

Miniature size

Individually temperature checked on modern, custom-designed equipment

Positive make and break with Klixon® snapaction disc

Repeatable temperature performance over life

Gasketed steel case suitable for most impregnation processes

Current and temperature sensitivity for maximum design flexibility and application

Wide selection of leads and insulating sleeves

The Klixon® 7AM Thermal Protector is the market leader, backed by proven innovations in protection technology. The 7AM is a thermally operated snapaction device which delivers the maximum protection in the smallest package at an affordable price.

The 7AM is a proven performer in protection technology with over 35 years of design experience combined with a modern state-of-art manufacturing facility.

Operation

The operating principle of the 7AM is both simple and effective. At the heart of the protector is a Klixon® bimetal snapaction disc. When the temperature of this disc reaches its precalibrated temperature it snaps open, resulting in an open circuit. This temperature is reached during a fault condition, caused by either an increase in ambient temperature, in increase in current flowing thru the disc, or a combination of both. After the 7AM breaks the circuit, the system cools and the 7AM automatically resets allowing power to be restored in the circuit.

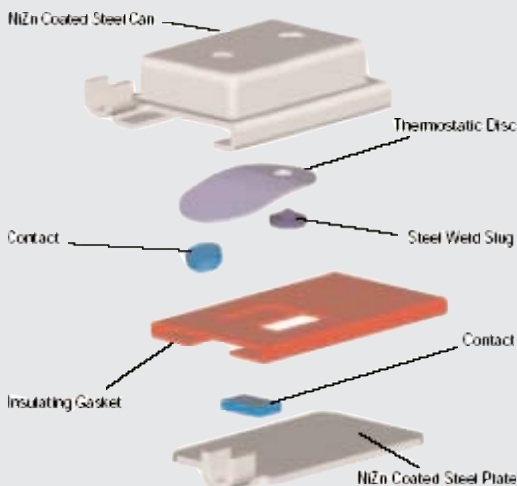
Quality

Each 7AM rating has a bimetal disc designed and manufactured for the specific temperature rating. Each individual device is then calibrated and checked for opening temperature. This results in precise operating characteristics necessary to achieve consistent, reliable performance over the required life cycle.

This high level of performance is obtained thru Sensata Technologies traditional emphasis on quality. A corporate-wide thrust, re-emphasizes the supplier's responsibility and integrates modern statistical techniques into the production and quality assurance processes. As continuous inputs to the quality monitoring systems, more than 12 different checks are made during the manufacturing process.

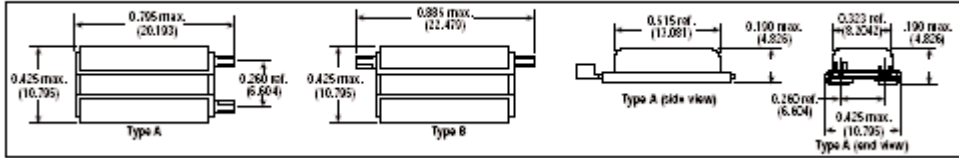
Applications

- Shaded pole motors
- Permanent split capacitor motors
- Fluorescent lighting ballasts
- HID ballasts
- Transformers
- Recessed lighting fixtures
- Battery packs
- Vacuum cleaners
- Automotive accessory motors, solenoids, PC boards and other applications

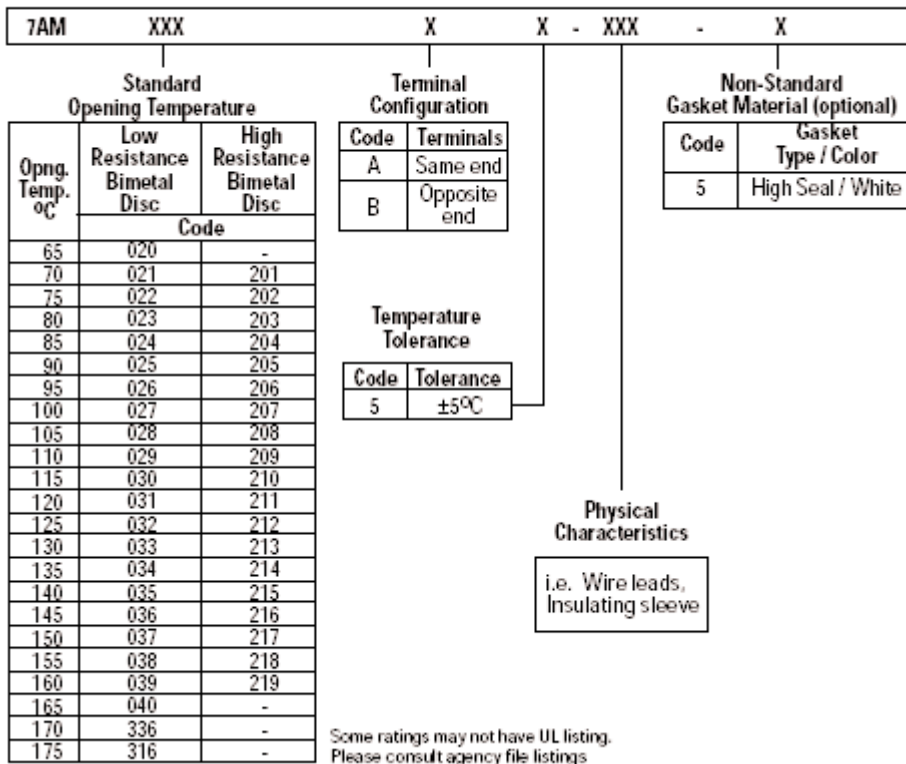




Dimensions Inches (Millimeters)

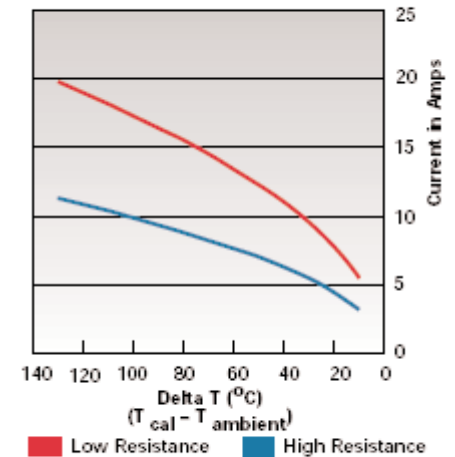


Numbering System



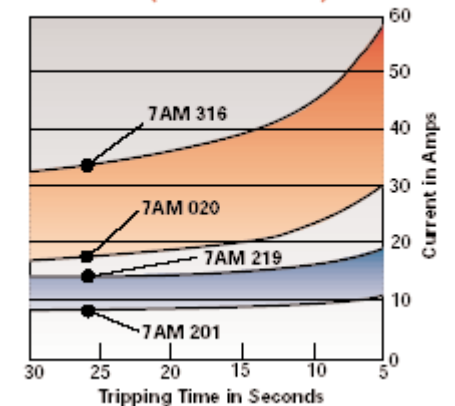
Ultimate Trip Current vs. Delta Temperature

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



Note:
Delta T is the difference between the zero current calibrated opening temperature (T_{cal}) and ambient temperature ($T_{ambient}$) at the protector location.

Average First Cycle Tripping Time vs. Current (25°C Ambient)



Maximum Contact Ratings (10,000 Cycles)

Voltage	Current
16 VDC	20 amperes
120 VAC	22 amperes
277 VAC	8 amperes
600 VAC	4 amperes

Certifications

Agency	File Number	Standard Number	Application
UL	E 15962	2111	Motor Protection
	E34618	873	Limit and regulating controls
CSA	11372	C22.2, #77	Motor Protection
	24458	C22.2, #74	Limit and regulating controls
KEMA(ENEC)	2014531.03	EN 60730-2-2	Motor Protection
		EN 60730-2-3	Ballast Protection
		EN 60730-2-9	Thermal cut-out

TECHNICAL / SALES SUPPORT



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