

7AM SERIES



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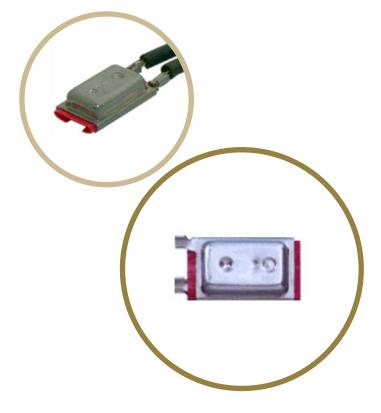
TAM SERIES LIGHTING, ELECTRICAL, THERMAL, BATTERY, MOTOR PROTECTION

Introduction

The Klixon® 7AM delivers the maximum protection in the smallest package at an excellent price. It's the most reliable on the market, backed by the leading innovators in protection technology.

Each 7AM temperature rating has a bimetal disc specifically manufactured for that rating. Each device is then calibrated and checked for opening temperature. This results in optimum snap–acting open and reset characteristics necessary to achieve consistent performance over the required cycle life.

The Klixon® bimetal disc welded in a steel can provides excellent thermal sensitivity and maximum protection properties.



Features

- Over 3 billion sold
- Compact, miniature size
- UL, C-UL, DEKRA (ENEC) approvals
- Individually temperature checked on modern, custom-designed equipment
- Positive make and break with Klixon® snap-action 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

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PERFORMANCE CHARACTERISTICS

125 Vac / 250 Vac				
20.2 x 10.8 x 4.9 mm (including terminals)				
10,000 cycles / 8 A / 250 Vac (see approvals sheets)				
16 VDC at 20 amps 120 VAC at 22 amps 277 VAC at 8 amps 600 VAC at 4 amps				
70°C to 175°C in increments of 5°C				
±5°C				
19°C to 54°C, depending on open temperature				
High-seal and low-seal gasket material available				
Continuous: open-temperature +10°C Overshoot: 5 minutes at 200°C				
Military standard 202F, Method 204D, Test Condition D (20g peak)				
48 hours at 35°C in 5% salt environment (ASTM B117)				
95% relative humidity, 40°C: 7 days				
-20°C / +150°C, each for 30 minutes / 5 cycles				

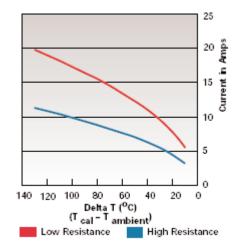
MAXIMUM CONTACT RATINGS (10,000 CYCLES)

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



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.



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ORDERING OPTIONS

Family		<u>7AM XXX - </u>	<u>x</u> x	<u> </u>	<u> </u>	<u>x</u>	
Standard Operating Temperature							
Operating Temp. °C	Low Resistance Bimetal Disc	High Resistance Bimetal Disc					
	Code						
65	020	-					
70	021	201					
75	022	202					
80	023	203					
85	024	204					
90	025	205					
95	026	206					
100	027	207					
105	028	208					
110	029	209					
115	030	210					
120	031	211					
125	032	212					
130	033	213					
135	034	214					
140	035	215					
145	036	216					
150	037	217					
155	038	218					
160	039	219					
165	040	-					
170	336	-					
175	316	-					
Terminal Configurati	on						
A = Same end B = Opposite end							
Temperature Tolerance							
5 = ±5°C							
Physical Characteris					L		
i.e. Wire leads, insulating sleeve							
Non-Standard Gasket Material (Optional) 5 = High Seal / White							

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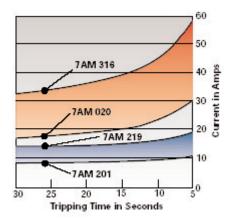
Some ratings may not have UL listing. Please consult agency file listings.



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AVERAGE FIRST CYCLE TRIPPING TIME VS. CURRENT (25°C AMBIENT)



AGENCY APPROVALS & CERTIFICATIONS

Agency	File Number	Standard	Note
UL/Canadian-UL	E15962	UL2111, C22.2, #77	Motor protection
UL/Canadian-UL	E34618	UL873, C22.2, #74	Limit and regulating controls
DEKRA (ENEC)	2014531.03	EN 60730-2-22	Motor protection
DEKRA (ENEC)	2014531.03	EN 60730-2-3	Ballast protection
DEKRA (ENEC)	2014531.03	EN60730-2-9	Thermal cut-out

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