

Thermal Protectors

S7AM Series (Open On-Rise)



Thermal Protectors - S7AM

The S7AM Thermal Protector is a thermally operated snap-action device which delivers the maximum protection in the smallest package. The operating principle of the S7AM is both simple and effective. At the center of the protector is a bimetal snap-action strip. When the temperature of the strip reaches its calibrated temperature, it snaps open, resulting in an open circuit. This temperature is reached by either an increase in ambient temperature, an increase in current flowing through the strip, or a combination of both. After the S7AM breaks the circuit, the system cools and the S7AM automatically resets allowing power to be restored to the circuit.

Each S7AM rating has a bimetal strip designed and manufactured for that specific temperature rating. Each 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.

The S7AM comes standard without leads and can be customized with leads, connectors and sleeves per your request. For details regarding custom thermal protector assemblies, please contact Selco directly.

Everyday Applications

Lighting Ballasts, Transformers, Battery Packs, Motors, Solenoids, Vacuums, And More...

Technical Specifications



S7AM Series

Temperature Range

65°-175°C (149°-347°F)

Temperature Tolerance

±5°C (±9°F)

Electrical Ratings

16VDC, 20 Amps, 10,000 Cycles
120VAC, 22 Amps, 10,000 Cycles
277VAC, 8 Amps, 10,000 Cycles
600VAC, 4 Amps, 10,000 Cycles

Dielectric Strength

900 Volts

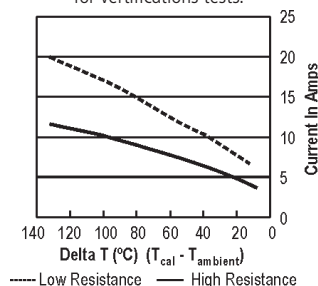
EXAMPLE PART NUMBER

S7AM023A5

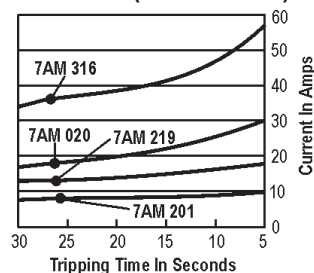
Open on-rise 80°C±5°C (176°F±9°F), Reset approx 55°C (131°F) Radial type, No leads, No sleeving

Ultimate Trip Current vs. Delta Temperature

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



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



Custom Option Shown Here - Call for Details!

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

NOTE: It is the customer's sole responsibility to specify and determine the suitability of a particular control or component based on their unique individual applications and requirements, with respect to temperature settings, cycle life, electrical load and environmental conditions.

For more information on Selco Products please visit us at: www.selcoproducts.com



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S7AM Series

APPROVALS	
UL873	File No. E34618 Temperature Limiting and Regulating (File No 24458 investigated to CSA-C22.2 No. 74)
UL2111	File No. E15962 Thermal Motor Protectors (File No 11372 investigated to CSA-C22.2 No. 77)

Part Number Configurator

S7AM

H

*Low Resistance - In application where temperature rise in less than 2C per second.

**High Resistance - In applications where temperature rise is 2C-5C per second

Standard Opening Temperature		
Opening Temp C	*Low Resistance Bimetal Strip	**High Resistance Bimetal Strip
	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 Configuration	
Code	Terminals
A	Same end
B	Opposite end

Terminal Tolerance	
Code	Tolerance
5	5C

Physical Characteristics
i.e. Wire leads, insulating sleeves
18AWG - largest wire option
22AWG - smallest wire option

Non-Standard Gasket Material (Option)	
Code	Gasket Type/Color
H	High Seal / White

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