



## USE-8AM (Snap Action type – Motor Protector)

### Thermal Protector for Motors reacting to both current and temperature

US Electronics USE-8AM Series Thermal Protectors deliver the utmost protection at an excellent price

The USE-8AM series motor protectors sensitive to both temperature and current and are small and light weight. The sealed steel case will withstand rough environments and can be mounted directly on motor windings to detect temperature changes promptly.

Our USE-8AM Series motor protectors use snap action bi-metallic disc in normally closed circuit. The device could open by either the current passing through it or from the heat conducted from the motor windings or other heat source. When the temperature reaches the set point, the bi-metallic disc snaps open and interrupts the circuit. Once the temperature cools down to the normal operating limit, the circuit closes automatically.



#### It protects against overheating in:

- Motors in various applications
- Electric heating elements
- Fluorescent ballasts
- Sodium lamps
- Transformers
- Household appliances

#### Here's why you should be using US Electronics USE-8AM Series Thermal Protectors in your product:

- Small size and insulated case
- Individually temperature calibrated and inspected.
- High Repeatability in open temperature setting over life.
- Wide selection of leads.

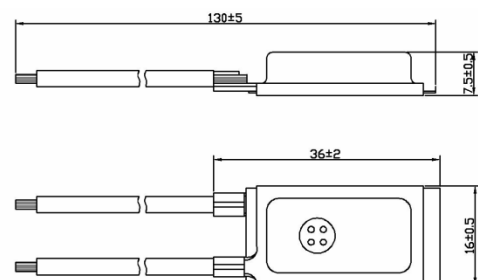
#### Operation:

The USE-8AM Series Thermal protector uses the double protection of current and temperature sensing snap action protector. The bimetal disc senses both heat and current from the equipment in which the thermal protector is installed on. When the temperature of the disc or current through the disc reaches a predetermined calibration point, the disc snaps open the contacts, thus breaking the current path. When the equipment returns to a normal operating range, the USE-8AM protector resets and closes the electrical circuit automatically.

#### Dimensions:

#### Technical Specifications:

Contact Rating:	20-60A@24VDC, 20-60A@240VAC
Temperature Range:	80°C to 160°C
Open Temp. Tolerance:	+/- 8°C
Max. Storage temp.:	150°C
Switch Action:	NO SPST Snap action type
Rated No. of Switching Cycles:	5,000
Hysteresis to reset:	15-35°C (depends on the open temperature setting)
Trip time:	4 ~ 10 seconds



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USE-8AM (Snap Action Type)  
HOW TO ORDER (Part numbering system)

**USE-8AM**

**080**

**20**

**XX**

<b>Model USE-8AM</b>	<b>Action Temp.(°C)</b>	<b>Trip Current (A) 20, 25, 30, 35, 40, 45, 50, or 60</b>	<b>XX: Optional Customer code</b>
<b>USE-8AM08020</b> 80°C +/- 8°C Opening temp. with reset temp. of 60±15°C and current limit of 20 amps with optional customer code	<b>Action Temp.(°C)</b>	<b>Reset Temp. (°C)</b>	
	80±8	60±15	
	85±8	65±15	
	90±8	70±15	
	95±8	75±15	
	100±8	80±15	
	105±8	85±15	
	110±8	90±15	
	115±8	95±15	
	120±8	100±15	
	125±8	105±15	
	130±8	110±15	
	135±8	115±15	
	140±8	120±15	
	145±8	125±15	
	150±8	130±15	
	155±8	135±15	
	160±8	140±15	