



USE-RS (Snap Action type – Thermal Motor Protector)

Thermal Protector for Motors reacting to both current and temperature

US Electronics USE-RS Series Thermal Protectors deliver the utmost protection in a miniature package at an excellent price

Our USE-RS Series Thermal Protectors prevent overheating in products that generate heat. They are in a miniature, insulated case and are snap acting, thermally operated devices that are proven performers in protection technology.

It protects against overheating in:

- Motors in various appliances
- Battery Packs
- Fluorescent ballasts
- Sodium lamps
- Transformers
- Automotive Products, solenoids, PC boards and other applications



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

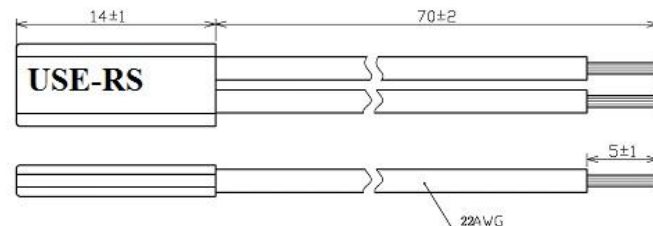
- Small size and insulated case
- Individually temperature calibrated and inspected.
- High Repeatability in open temperature setting over life.
- Wide selection of leads.

Operation:

The USE-RS 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-RS protector resets and closes the electrical circuit automatically.

Dimensions & Technical Specifications:

Contact Rating:	5A@24VDC, 5A@120VAC
Temperature Range:	45°C to 120°C
Open Temp. Tolerance:	+/- 5°C
Max. Storage temp.:	130°C
Switch Action:	N/O SPST Snap action type
Rated No. of Switching Cycles:	6,000
Hysteresis to reset:	25-45°C (depends on the open temperature setting)





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

USE-RS

045

D

XXXX

Model USE-RS	Action Temp. (°C)	Reset code	XXXX: Optional Customer code
	Action Temp.(°C)	Reset Temp. code	Reset Temp. (°C)
Example: Part Number USE-RS045-D 45°C +/- 5°C Opening temp. with reset temp. of greater than 35C	45±5	D	≥35
	50±5	D	≥35
	55±5	D	≥35
	60±5	D	≥35
	65±5	D	≥35
	70±5	C	45±15
	75±5	C	50±15
	80±5	C	55±15
	85±5	C	60±15
	90±5	C	65±15
95±5	B	60±15	
100±5	B	65±15	
105±5	B	70±15	
110±5	A	75±15	
115±5	A	80±15	
120±5	A	85±15	