

USE-6AP (Snap Action type – Thermal Motor Protector)

Thermal Protector for Motors reacting to both current and temperature

US Electronics USE-6AP Thermal Protector delivers the utmost protection in a miniature package at an excellent price. Our USE-6AP Thermal Protector prevents overheating in products that generate heat. It is a miniature, snap acting, thermally operated device that is a proven performer in protection technology. It has the dual protection of current and temperature. Either a large current or temperature spike will open the circuit.

It protects against overheating in:

- Motors in various appliances
- Automatic window lift motors
- Wiper motors
- Adjustable seat motors
- Vacuum cleaner motors
- Automotive Products, solenoids, PC boards and other applications



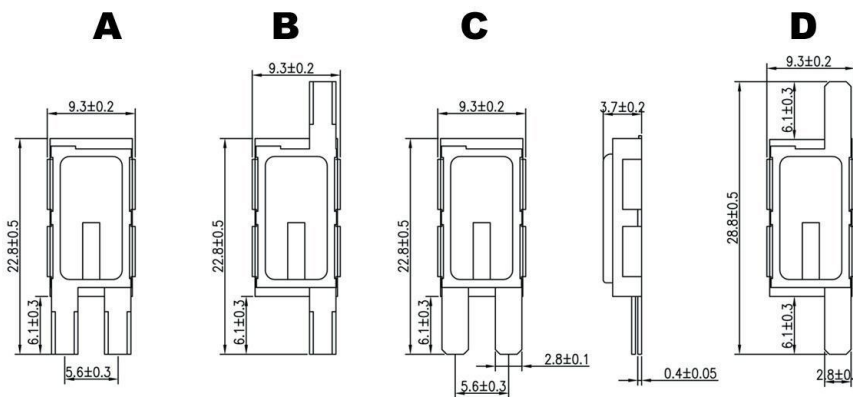
Here's why you should be using US Electronics USE-6AP Thermal Protectors in your product:

- Small size.
- Individually temperature calibrated and inspected.
- High Repeatability in open temperature setting over life.
- Wide selection of leads and insulating sleeves.
- Same side and opposite side terminal configurations.

Operation:

The USE-6AP 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-6AP protector resets and closes the electrical circuit automatically.

Construction Type and dimensions:



Technical Specifications:

Contact Rating:	15A@30VDC, 30A@15VDC & 10A@250VAC
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:	30,000
Hysteresis to reset:	15-35°C (depends on the open temperature setting)
Trip Current:	3 ~ 30A (test condition at 25C)
Trip time:	4 ~ 10 seconds



USE-6AP (Snap Action Type)

HOW TO ORDER (Part numbering system)

USE-6AP

024

A

XX

Model USE-6AP	Type	Construction Type A, B, C or D	XX: Optional Customer code																																																																											
<table border="1"> <thead> <tr> <th>Type</th> <th>Action Temp.(°C)</th> <th>Reset Temp. (°C)</th> </tr> </thead> <tbody> <tr><td>016</td><td>45±5</td><td>≥30</td></tr> <tr><td>017</td><td>50±5</td><td>≥30</td></tr> <tr><td>018</td><td>55±5</td><td>≥30</td></tr> <tr><td>019</td><td>60±5</td><td>≥30</td></tr> <tr><td>020</td><td>65±5</td><td>≥30</td></tr> <tr><td>021</td><td>70±5</td><td>51±15</td></tr> <tr><td>022</td><td>75±5</td><td>53±15</td></tr> <tr><td>023</td><td>80±5</td><td>55±15</td></tr> <tr><td>024</td><td>85±5</td><td>57±15</td></tr> <tr><td>025</td><td>90±5</td><td>59±15</td></tr> <tr><td>026</td><td>95±5</td><td>62±15</td></tr> <tr><td>027</td><td>100±5</td><td>64±15</td></tr> <tr><td>028</td><td>105±5</td><td>67±15</td></tr> <tr><td>029</td><td>110±5</td><td>70±15</td></tr> <tr><td>030</td><td>115±5</td><td>73±15</td></tr> <tr><td>031</td><td>120±5</td><td>76±15</td></tr> <tr><td>032</td><td>125±5</td><td>79±15</td></tr> <tr><td>033</td><td>130±5</td><td>83±15</td></tr> <tr><td>034</td><td>135±5</td><td>86±15</td></tr> <tr><td>035</td><td>140±5</td><td>90±15</td></tr> <tr><td>036</td><td>145±5</td><td>94±15</td></tr> <tr><td>037</td><td>150±5</td><td>96±15</td></tr> <tr><td>038</td><td>155±5</td><td>103±15</td></tr> <tr><td>039</td><td>160±5</td><td>106±15</td></tr> </tbody> </table>				Type	Action Temp.(°C)	Reset Temp. (°C)	016	45±5	≥30	017	50±5	≥30	018	55±5	≥30	019	60±5	≥30	020	65±5	≥30	021	70±5	51±15	022	75±5	53±15	023	80±5	55±15	024	85±5	57±15	025	90±5	59±15	026	95±5	62±15	027	100±5	64±15	028	105±5	67±15	029	110±5	70±15	030	115±5	73±15	031	120±5	76±15	032	125±5	79±15	033	130±5	83±15	034	135±5	86±15	035	140±5	90±15	036	145±5	94±15	037	150±5	96±15	038	155±5	103±15	039	160±5	106±15
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Example: Part Number USE-6AP024-XX 85°C +/- 5°C Opening temp. with reset temp. of 57±15°C with optional customer code																																																																														