Thermal Protector









Thermal Protector (S107) is used to prevent overheating.



What is Thermal Protector (\$107)?

Specification:

- Electrical rating: 115 VAC / 22A and 227 VAC / 8A
- Rate Open Temperature rang : 65 160 °C, tolerance \pm 5 °C or \pm 10 °C Circuit Resistance (Initial Value) : 50 m Ω or Less
- Insulation Resistance : 100 M Ω or More (with 500 VDC) Dielectric Strength : 1,500 VAC/1 Minute or 1,800 VAC/1 sec. Switching cycles : 5,000 cycles (At rated load)







Semi-Product
Ingressive Protection: IP00

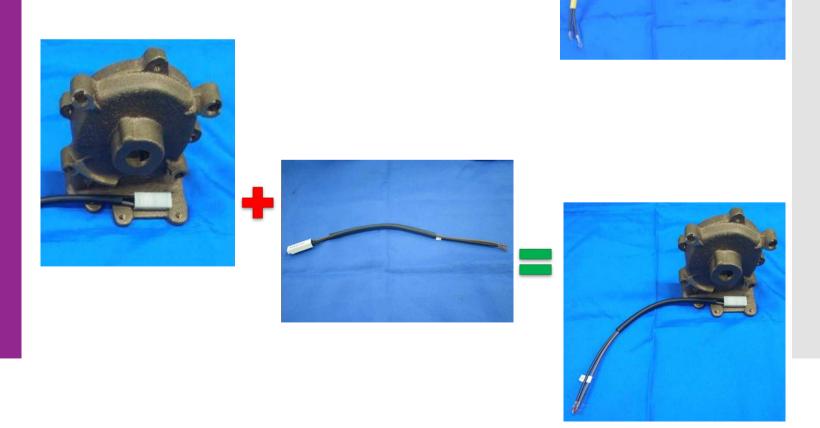
Thermal Protector Ingressive Protection: IP00

Thermal Protector (Water proof) Ingressive Protection: IP65



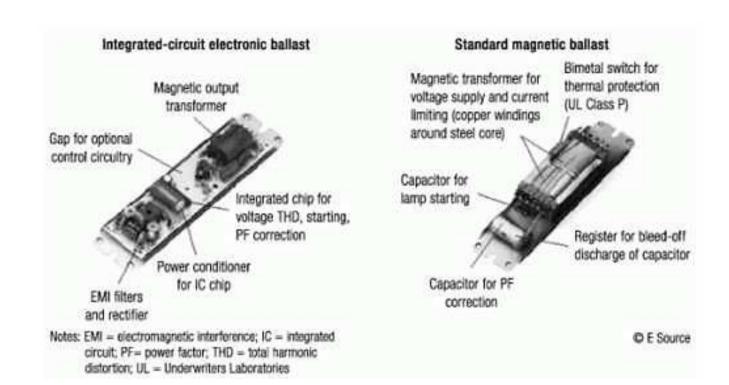
Water Pump







Fluorescent Ballast









Transformer







Coil Assembly







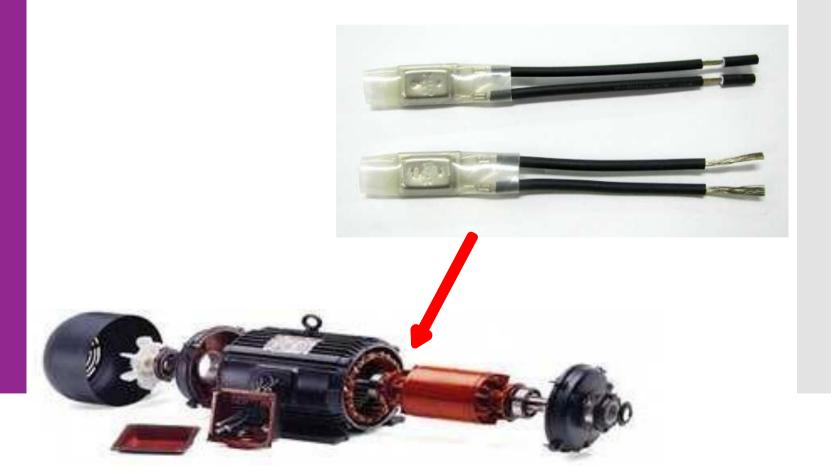
Industrial Motor



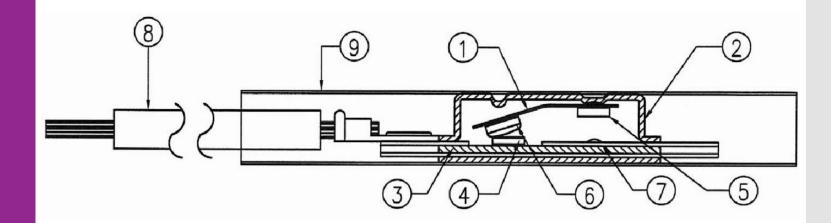




Three Phase



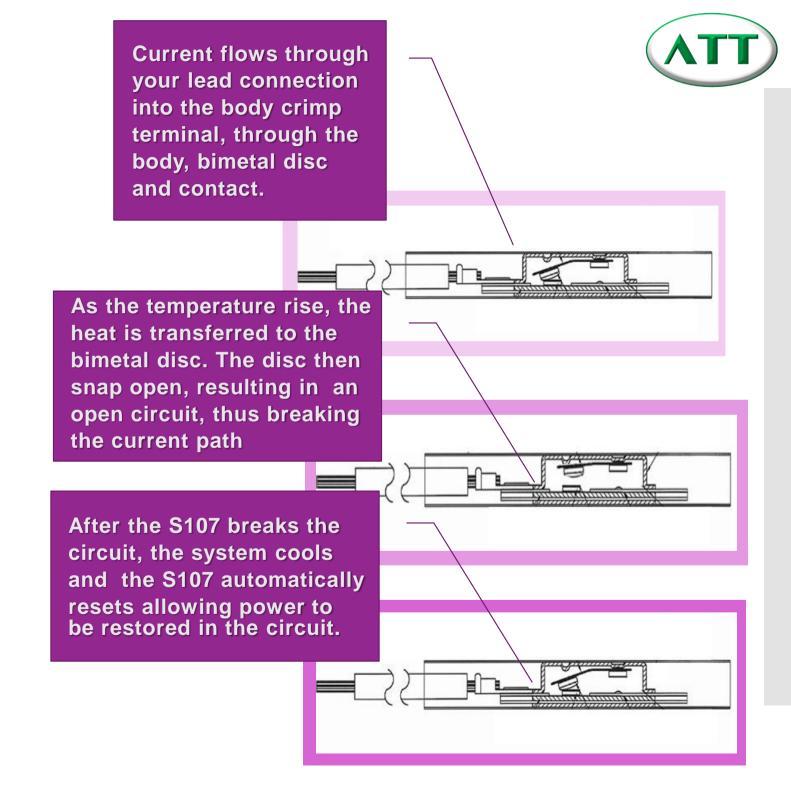




Construction

Part Name	Material
1.Bimetal Disc	Custom calibrated to your opening temperature specification
2. Body	Nickel coated steel. Work together with the fixed plate, supporting the internal parts while serving as a conductive of the S107
3.Fixed Plate	Nickel coated steel.
4.Fixed Contact	AgNi Clad Cu with Fe base
5.Bimetal Supporter	SWCH-12A ELP-NiPlating
6.Movable Contact	AgNi Clad Cu with Fe base
7.Gasket	PETFilm impregnated with sealingepoxy
8.Elctric Wire	Follow as customer requirement
9.Insulation Sleeve	PET Film

How does the S107 protect against overheating?

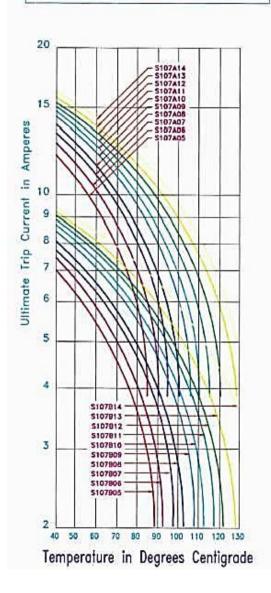


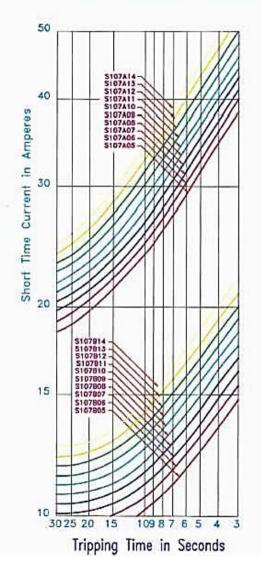


Ultimate Trip Current

and

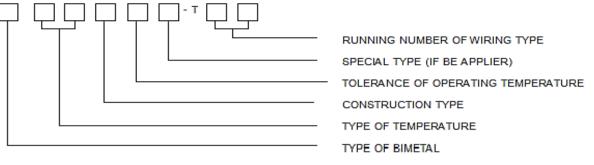
Avg. First Cycle Tripping Time Ultimate Trip Current with Protector Ambient Temperature Average First Cycle Tripping Time with Current in 25°C Ambient





S107





RUNNING NUMBER OF WIRING TYPE

01 : UL3271 (CSA CL1251) 18AWG STANDARD COPPER WIRE) OR EQUIVALENT

xx : ANOTHER TYPES FOLLOW AS CUSTOMER REQUIREMENT

TOLERANCE OPERATING TEMPERATURE

5 : ±5°C 1 : ±10°C

CONSTRUCTION TYPE

F : SAME DIRECTION TERMINAL (AgNi Contact) E : SHORTNESS SLEEVE

G : OPPOSITE DIRECTION TERMINAL (AgNi Contact)

H : SAME DIRECTION TERMINAL AND NO SLEEVE (AgNi Contact)

I : OPPOSITE DIRECTION TERMINAL AND SLEEVE (AgNi Contact)

TYPE OF TEMPERATURE

00 : 65±5 off / 43±15 on 11 : 120±5 off / 76±15 on 12 : 125±5 off / 79±15 on 70±5 off / 51±15 on 13 : 130±5 off / 83±15 on 75±5 off / 53±15 on 14 : 135±5 off / 86±15 on 80±5 off / 55±15 on 85±5 off / 57±15 on 15 : 140±5 off / 90±15 on 16 : 145±5 off / 94±15 on 90±5 off / 59±15 on 95±5 off / 62±15 on 17 : 150±5 off / 96±15 on 100±5 off / 64±15 on 18 : 155±5 off / 101±15 on 105±5 off / 67±15 on 19 : 160±5 off / 105±15 on

TYPE OF BIMETAL

A : LOW RESISTANCE
B : HIGH RESISTANCE

110±5 off / 70±15 on 115±5 off / 73±15 on

Example





