

Winding/Motor Protector SN-1

Utiliti Controls builds the 3.5mm motor protector to meet almost any requirement of protection in a wide range of small motors, small transformers, solenoids, etc. This compact motor protector is the best solution to protect the wide variety of motors used in industrial and domestic appliances against locked rotor and overload situations. It contains the calibrated disc carrying a silver contact. The fixed contact is placed on the opposite side, separated from the terminal by an insulator. In single-phase motors, SN-1 can be mounted directly in the main circuit to serve as an on-or in-winding protector for motors used in industrial and domestic appliances against locked rotor and overload situations. This motor protector consists of a PPS housing that holds and protects the inner components.

Features

- Sealed in PPS housing
- Repeatable snap-action bimetal actuation
- Maximum protection under locked rotor and overload conditions
- Compact size for easy installation

Applications

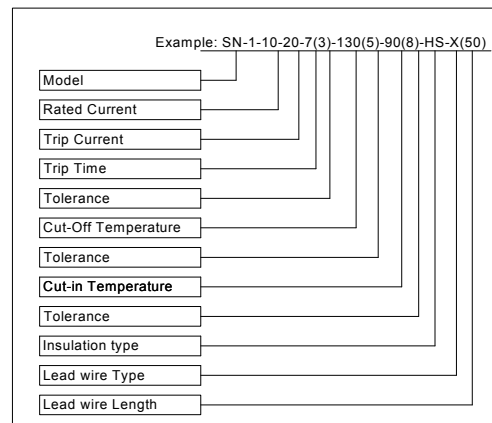
- small motors
- Coils
- Solenoid valves
- Transformers
- Battery pack

Specifications:

Rated Voltage Rated Current	230VAC, 2A to 12A
Operating Cycles	100,000 cycles
Maximum Temperature	160°C
Operating Range	50°C - 160°C
Setting Tolerance	+/- 5%
Differential	15-40°C



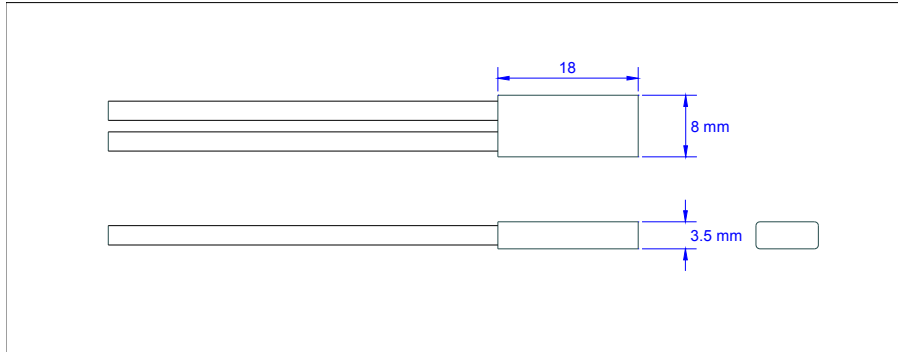
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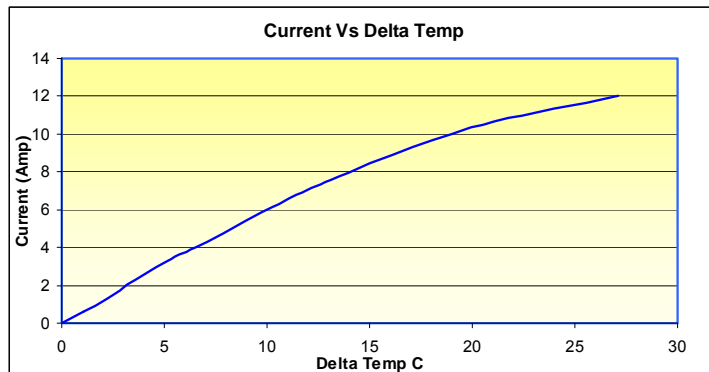
Operating Principle

The SN-1 series uses the snap-action principle. The bimetal disc senses both heat and current. A current flows through the resistive bimetal disc. When the temperature of the disc reaches a predetermined calibration point the disc snaps open the contact, breaking the current path. The contacts close again automatically as the device cools down to a safe running temperature.

Line diagram:



Characteristic graph:



Note: Delta temp= Cut-off temp at no load – Cut-off temp with load

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These instructions do not purport to cover all the details or variations in the equipment described, nor do they provide for every possible contingency to be met in connection with installation, operation and maintenance. All specifications are subject to change without notice. www.utiliticontrols.com
Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to Utiliti Controls, Mumbai.