



## 3/4" Motor Protector T TYPE

- The T motor protector is designed to protect single phase induction motors against overload and locked rotor conditions up to 65A.
- **AUTOMATIC RESET:** Main application is protection of hermetic compressor for refrigeration. Models with cover are approved for use with flammable refrigerant gases.
- **MANUAL RESET:** Main application is protection of electric motor where automatic reset would be dangerous or otherwise undesirable (Food Mixers, Chain saws, etc.). Trip-free to assure contact break independent of manual action.



### GENERAL CHARACTERISTICS

- CONTACT CONFIGURATION: Single pole - Double break - Single throw - N.C.
- CONTACT RATING: Low capacity 40A 115Vac, 30A 230Vac  
High capacity 65A 115Vac, 50A 230Vac  
Above ratings are locked-rotor inductive currents (LRA)
- MAXIMUM OPERATING TEMPERATURE: 150°C
- OPENING TEMPERATURE: 65°C up to 150°C ( ±5°C )  
-----Minimum differential 25°C nominal (or manual)
- RESET TEMPERATURE 41°C up to 102°C ( ±9°C )
- FIRST CYCLE TRIP CURRENT (at 25°C in 7.5-14seconds) from 3 to 50A
- ULTIMATE TRIP CURRENT from 0.6 to 25A
- AUXILIARY HEATERS selection of flat or coiled heaters
- DISC Different physical sizes, broad range of material resistivity
- TERMINAL CONFIGURATION: Quick-Connect tab  
M3.5 screws  
Solder terminal  
Cable leads (AWG 14 or AWG 16)
- APPROVALS : UL E-51822  
VDE 40011389 ( IEC 60730-2-4 )  
40003846 ( IEC 60730-2-2 )  
CQC 10002047074  
IEC 60079-15 (automatic models with cover)

Please consult factory for details of individual approval or particular configuration.



## ORDERING INFORMATION

SAMPLE PART. NO. T A 2 S M S A 900 XX

**3/4" Protector**

**Stationary Contact - Cover -  
Round or Eared Base**

|                             |            |
|-----------------------------|------------|
| A=welded contact and cover  | E=A, eared |
| B=to play contact and cover | F=B, eared |
| C=welded contact, no cover  | G=C, eared |
| D=to play contact, no cover | H=D, eared |

**Disc Shape and Size**

Different types numbered from 1 to 8

**Disc Resistivity and Contact Type**

CONTACT CAPACITY

H.C. types from E to T

125V

250V

L.C. types from U to Y

65A

50A

40A

30A

**Disc open temperatures (frequently used)**

|         |     |     |     |     |     |     |     |     |     |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| CODE    | F   | G   | H   | J   | K   | L   | M   | N   | P   |
| TEMP.°C | 150 | 145 | 140 | 135 | 130 | 125 | 120 | 115 | 110 |

**Disc close temperatures (frequently used)**

|         |     |    |    |    |    |    |        |
|---------|-----|----|----|----|----|----|--------|
| CODE:   | F   | J  | N  | S  | U  | V  | A      |
| TEMP.°C | 102 | 92 | 78 | 69 | 61 | 57 | Manual |

**Terminal and Mounting Data**

From 00 to 99 =Many different terminal option are available

**Wire Diameter and turns**

From 100 to 185 for FLAT

From 400 to 974 for FLAT OR COILED heaters

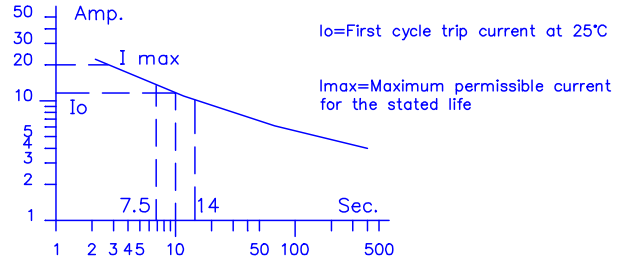
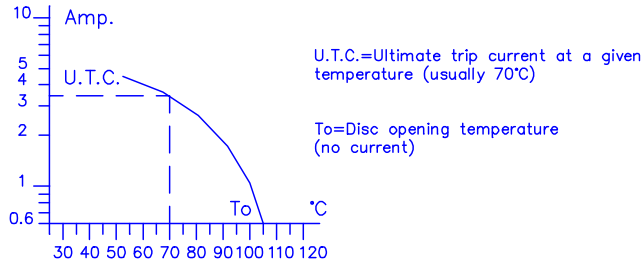
No heater -000

**Heaters shape and material**

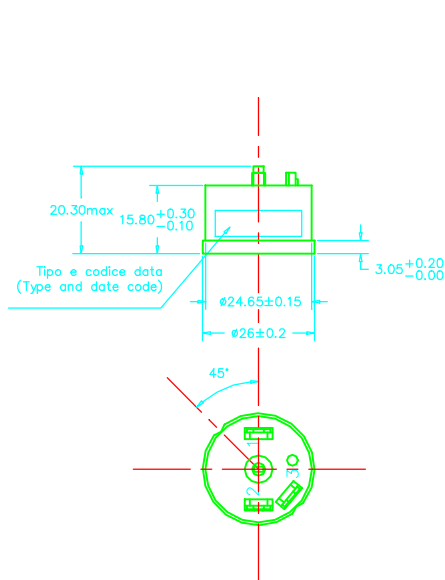
Flat types - Letters from A to F

Coiled types-Letters from G to L

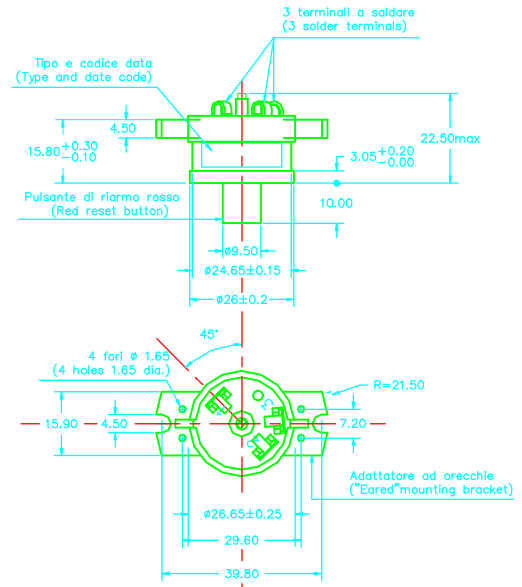
## EXAMPLE OF PERFORMANCE CURVES



## OUTLINE DRAWINGS



**Automatic Reset**  
 Eared mounting available on request



**Manual Reset**  
 Eared mounting available on request  
 Red or green button option

For special applications or mountings not shown in this catalogue, please contact the Factory

**Electrica s.r.l.** - via privata Della Torre, 24 - 20127 Milano - Italy  
 Tel. +39 02 2892641 Fax +39 02 2827511  
[www.electrica.it](http://www.electrica.it) [info@electrica.it](mailto:info@electrica.it)