



## 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)

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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

H.C. types from E to T  
 L.C. types from U to Y

CONTACT CAPACITY	
125V	250V
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

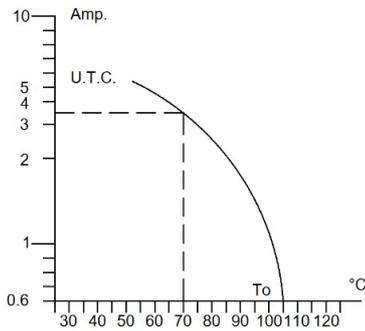
#### Wire Diameter and turns

From 100 to 185 for FLAT  
 From 400 to 974 for FLAT OR COILED heaters  
 No heater -000

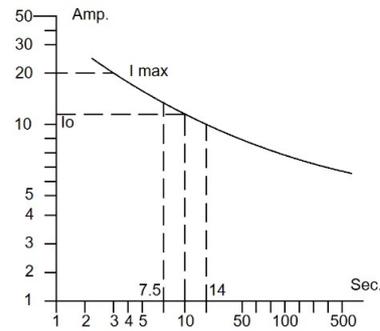
#### Heaters shape and material

Flat types - Letters from A to F  
 Coiled types-Letters from G to L

## EXAMPLE OF PERFORMANCE CURVES

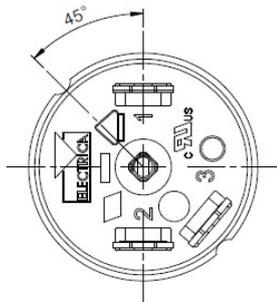
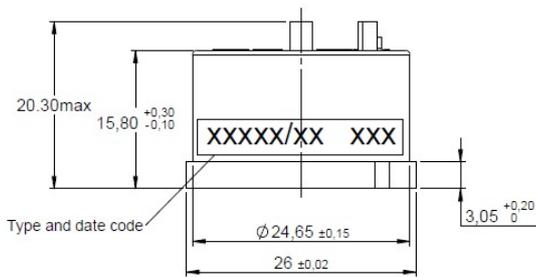


U.T.C. = Ultimate trip current at a given temperature (usually 70°C)  
 To = Disc opening temperature (no current)



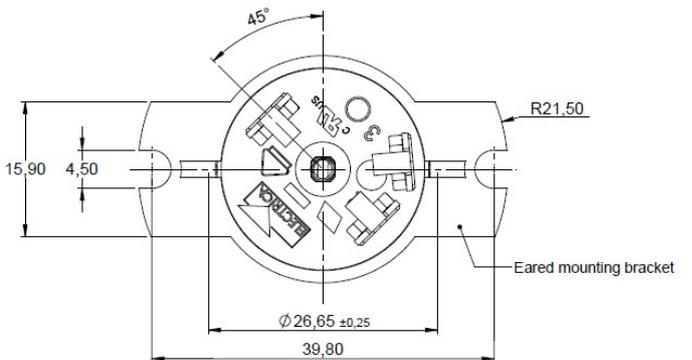
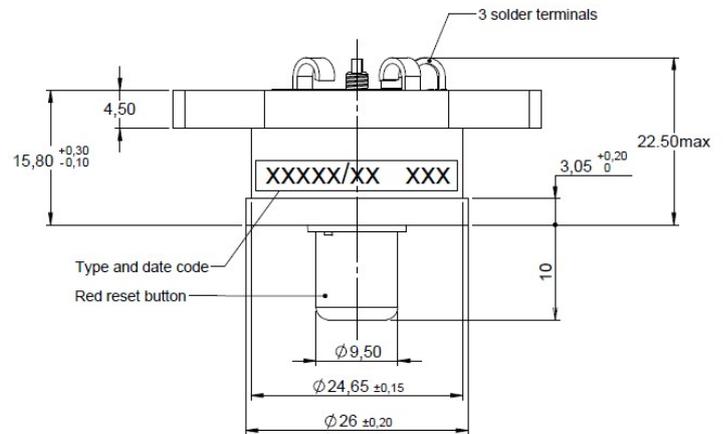
Io = First cycle trip current at 25°C  
 I max = Maximum permissible current for the stated life

## 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

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