

## KLIXON® | 16HM SERIES MOTOR PROTECTORS

*Hermetically Sealed Single Phase  
On Winding Protection*

### PRODUCT OVERVIEW

The Klixon® 16HM series hermetically sealed single phase on-winding motor protectors are a new generation product designed to meet the demands of tomorrow's compressors. The 16HM family of motor protectors can be applied to air conditioning compressors ranging from 2 to 6HP\*.

### Features & Benefits

- Direct line break
- Automatic reset
- Compact and rugged construction
- Provides start winding protection
- Meets scroll and high side compressor requirements
- Application range - 2HP to 6HP\*
- Tamperproof protection
- Hermetically sealed

These protectors are designed to track winding temperatures and to respond to changes in line current.

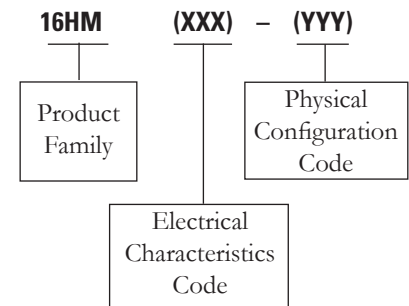
When properly applied, the 16HM can provide protection against motor overheating under the following conditions:

- Running overload
- High/low voltage locked rotor
- High voltage light load
- Loss of refrigerant charge
- Welded start relay
- Shorted capacitor
- Blocked condenser fan

### Product Description

The 16HM utilizes two internal heaters. One of them is sensitive to start winding current and the other is sensitive to main winding current. The device can protect against start winding overheating and against conditions which generate high main winding currents. Its compact and rugged design make it resistant to mechanical shock and suitable for installation directly on motor windings.

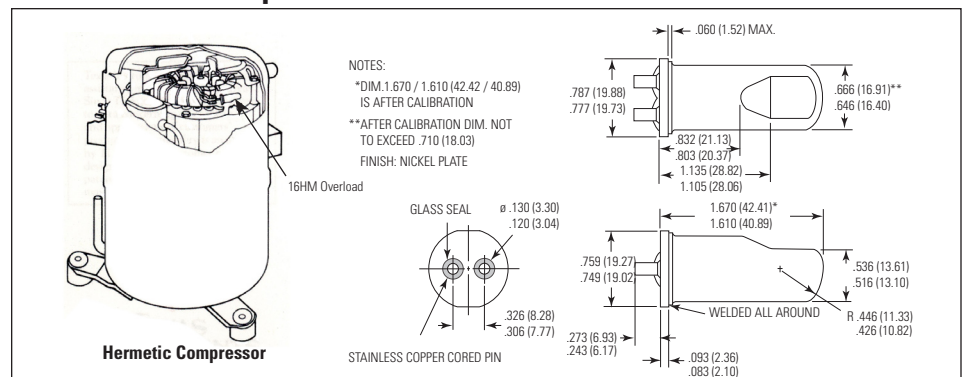
### 16HM Code System



### Line Break Operation

Klixon® 16HM motor protectors are line break automatic reset controls which are wired in series with the motor windings.

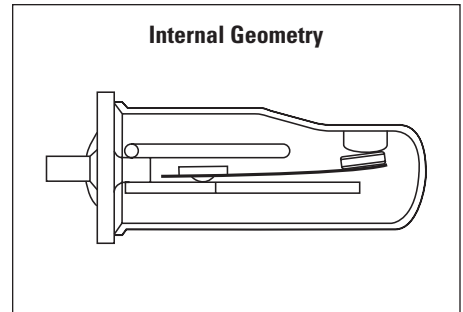
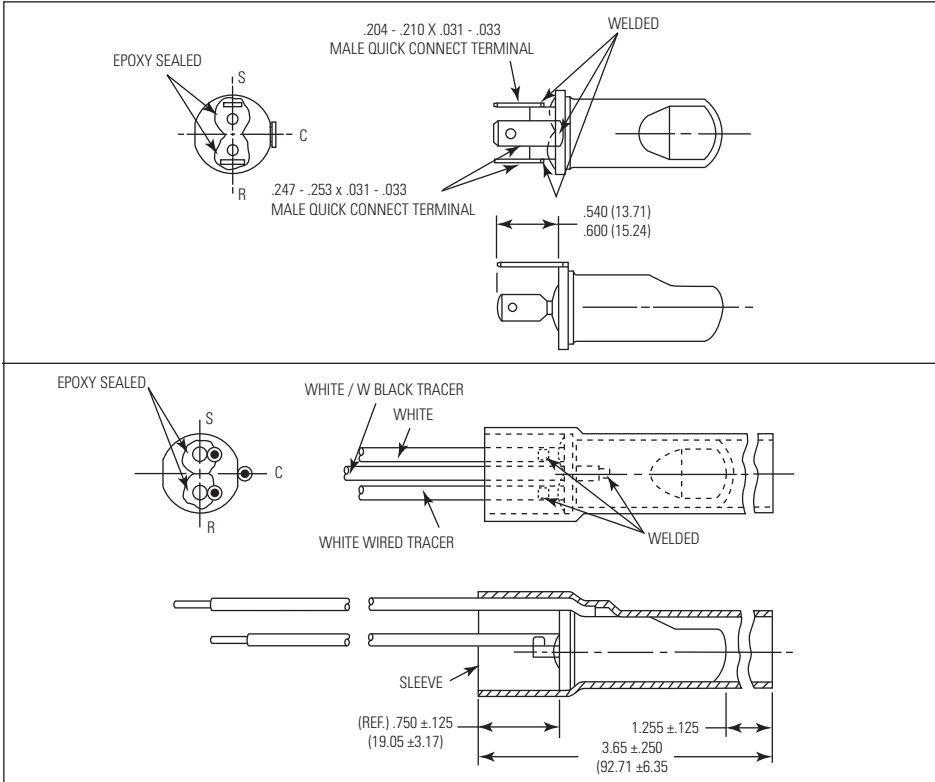
### Basic 16HM Envelope



# KLIXON | 16HM SERIES MOTOR PROTECTORS

*Hermetically Sealed Single Phase On-Winding Protection*

## 16HM Termination Styles



## Protector Rating

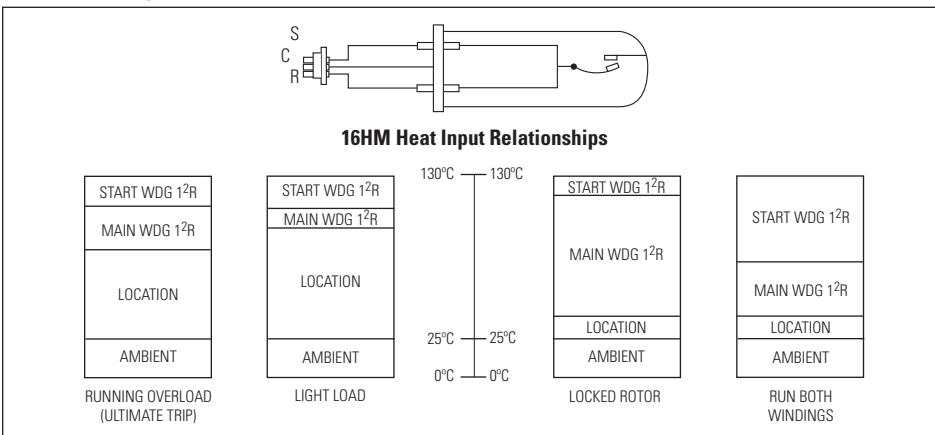
Series	Line Voltage	Lock Rotor Current
16HM 1XX	230V	*165 Amps

\*To be used as a guide for selection only, consult factory for specific life test data.

## Specifications

Open Temperature .....	95°C - 155°C in 5°C increments
Tolerance .....	±5°C Open ±9°C Close

## Circuit Diagram



Several termination options  
U/L Recognized-File E15962  
CSA Certified-File LR11372



The World Depends on Sensors and Controls

## Sensata Technologies

529 Pleasant Street  
Attleboro, MA 02703-2964  
U.S.A.  
Phone 1-508-236-3800  
www.sensata.com

Important Notice: Sensata Technologies (Sensata) reserves the right to make changes to or discontinue any product or service identified in this publication without notice. Sensata advises its customers to obtain the latest version of the relevant information to verify, before placing any orders, that the information being relied upon is current. Sensata assumes no responsibility for infringement of patents or rights of others based on Sensata applications assistance or product specifications since Sensata does not possess full access concerning the use or application of customers' products. Sensata also assumes no responsibility for customers' product designs.