



KLIXON | 34HM SERIES MOTOR PROTECTORS

Hermetically Sealed On-Winding, 3-Phase

PRODUCT OVERVIEW

The Klixon® 34HM on-winding motor protector is a 3-phase line break, automatic reset device which interrupts line current at the centerpoint of a WYE (Star) wound motor.

Compliant with European Directive 2002/95/EC Restrictions On Use of Hazardous Substances (RoHS)

Features & Benefits

- Protect WYE (Star) wound 3-phase motors from 1 to 6HP. Used in refrigeration compressors, submersible pumps and other restrictive environments.
- In-line protection in a small, rugged, welded construction. Low profile shape allows for close coupling to motor windings.
- Hermetic reliability designed for leakage rates less than 1 x 10⁻⁹ cc per second of air with 1 atmosphere pressure differential.
- Klixon® snap-action discs assure positive make and break action and controlled temperature differential.
- Designed for low and high side pressure applications.

This protector is designed to protect 3-phase refrigeration and air conditioning compressor motors from excessive winding temperature; however, applications may be made to any WYE wound 3-phase motors where environmental conditions require a hermetic seal.

The low profile permits the device to be installed directly on motor windings for closely coupled temperature monitoring, thus enhancing over-temperature protection against loss of refrigeration charge, low voltage locked rotor, and secondary single-phasing (loss of phase).

The 34HM is designed to reduce installation costs by replacing pilot control systems with a simple, economical, compact device.

Maximum Recommended Locked Rotor Current

Standard Series					
1XX	2XX		3XX		
230V	380V	460V	575V		
90A	55A	45A	35A		

High Capacity Series					
4XX	5XX		6XX		
230V	380V	460V	575V		
105A	80A	75A	60A		

Current ratings are based on life test data which has demonstrated high reliability at 5K cycles (standard series) and 2K cycles (high capacity series) at 0.7 power factor on Sensata life test boards.

These capacities are intended as a guide for application work.

The basic element of the 34HM is the famous Klixon® Snap Act-

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Standard Operating Temperatures

Opening Temperature

95°C to 175°C (5°C increments) Tolerance ±5°C

Closing Temperature

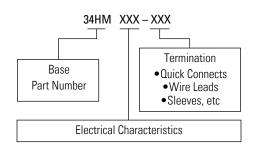
to suit application Tolerance ±9°C

Pressure Rating

1600 PSIG 110 bar

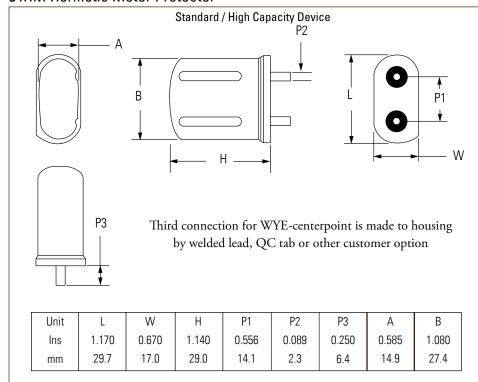
Coding System

When making an inquiry on Klixon® hermetically sealed motor protectors, be certain to specify the entire part number for your application, if known. The six digits following the series identification indicate your specific electrical and physical requirement.

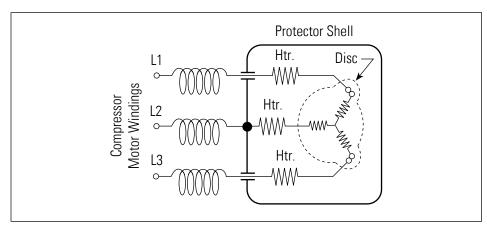


UL/Canadian UL - E15962 DEKRA (ENEC) - 2018218.08 CQC - CQC03002007220

34HM Hermetic Motor Protector



Electrical Schematic





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.