Veris Application Note



Monitoring and Controlling Fractional HP Motors

⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Use a properly rated voltage sensing device to confirm power is off.
 DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION
- · Only install this product on insulated conductors.

Failure to follow these instructions will result in death or serious injury.

The information provided herein is intended to supplement the knowledge required of an electrician trained in high voltage installations. There is no intent to foresee all possible variables in individual situations, nor to provide all training needed to perform these tasks. The installer is ultimately responsible to assure that a particular installation will be and remain safe and operable under the specific conditions encountered.

Introduction

For some applications, it is preferrable to control the start/stop functioning of a motor without using a contactor, requiring installation of a relay in series with the power source and the motor. A standard current switch/relay combination device cannot be used this way, because a standard relay is not designed to work with a fractional horsepower load. But an industrial-grade load-switching relay, with a rating of up to 1 HP, can be used in this manner.

These devices are available with or without a current status sensor in series with the relay. Some are available with an HOA switch for manual control, also installed in series. The versatile housings are built for junction box mounting, stand-alone mounting on a wall or panel surface, or mounting in an existing enclosure.

Applications

- · Exhaust fans
- · Unit ventilators
- Recirculating pumps
- Fan terminal units
- · Fan Coil Units
- · Any fractional HP motor

Wiring Example

