

This recommendation is offered as a guide to the design engineer when planning the wiring assembly procedure for external overload compressors.

Good wiring practice dictates that the following points be considered:

1. Position and orientation of the external overload.

When wiring the external overload, the overload and the wire to be connected to it should be positioned to protect any bare terminals or wires from touching any other metal part of the overload. This must be observed to assure that the rating of the trip point will not be altered and to assure the overload will not be shorted out entirely.

To accomplish the correct orientation on AE compressors, a detent is provided in the overload spring to engage a notch in the overload (see drawing on page 2.) On other models, the overload should be inspected visually and turned as required.

2. Position of the relay.

The relays on the various compressor models are position sensitive and must be installed correctly. On AE and AZ models, the relay is mounted directly onto the compressor terminals and should be within eight degrees (8.) of the vertical position as shown in the drawing. Other relays are marked with .TOP. and must be mounted with this side up. Care should be taken when routing the wires leading from the relay that they do not force it out of position.

3. Additional wires.

The number of wires entering the protective cover should be kept to a minimum in order to avoid the hazards noted in points 1. and 2. Too many wires will cause difficulty in the proper assembly of the protective cover and bale strap.

4. Safety caution.

Power to the compressor must not be applied without the cover gasket (if required), protective cover, and bale strap or fastener securely in place.

WIRE ROUTING EXAMPLE  
(AE MODELS)

