

Models Covered

262-PAO	262-PVA	262-PAU
262-PVK	262-PAP	262-PVO
262-PAV	262-PVP	262-PHU
262-PVU	262-PHO	262-PVV

Introduction

Protector Trip relay inputs are monitored within settable limits. In the event of the input moving outside these limits, the unit will initiate a trip signal via a double pole changeover relay.

An illuminated red LED indicates when the relay is energised. Relays normally energise on over or high and de-energise on under or low conditions. This function may be reversed on request when ordering.

Electromagnetic Compatibility

This unit has been designed to provide protection against EM (electro-magnetic) interference in line with requirements of EU and other regulations. Precautions necessary to provide proper operation of this and adjacent equipment will be installation dependent and so the following can only be general guidance:-

- Avoid routing wiring to this unit alongside cables and products that are, or could be, a source of interference.
- The auxiliary supply to the unit should not be subject to excessive interference. In some cases, a supply line filter may be required.
- To protect the product against incorrect operation or permanent damage, surge transients must be controlled. It is good EMC practice to suppress differential surges to 2kV or less at the source. The unit has been designed to automatically recover from typical transients, however in extreme circumstances it may be necessary to temporarily disconnect the auxiliary supply for a period of greater than 5 seconds to restore correct operation.
- Screened communication and small signal leads are recommended and may be required. These and other connecting leads may require the fitting of RF suppression components, such as ferrite absorbers, line filters etc., if RF fields cause problems.
- It is good practice to install sensitive electronic instruments that are performing critical functions in EMC enclosures that protect against electrical interference causing a disturbance in function.

Installation

The Protector should be installed in a dry position, not in direct sunlight and where the ambient temperature is reasonably stable and will not be outside the range 0-60 degrees Celsius. Mounting will normally be on a vertical surface but other positions will not affect the operation and vibration should be kept to a minimum. The Protectors are designed for panel mounting.

Connection diagrams should be carefully followed to ensure correct polarity and phase rotation. External current and voltage transformers may be used to extend the range. Connection wires should be sized to comply with applicable regulations and codes of practice.

These products do not have internal fuses therefore external fuses **must** be used for safety protection under fault conditions.

**Protector Trip Relays
Panel Mounted 262 Series
Current, Voltage & Frequency**

Earth/Ground Connections

For safety reasons, CT secondary connections should be grounded according to local codes of practice.

Setting Up

All Protectors have front mounted; calibrated controls and these should be set to suit operational requirements. A red LED on the front indicates, when lit, that the output relay is in the energised state.

Note, this means that it is necessary to know whether the output relay is arranged to energise or de energise on trip before the tripped or un-tripped state of a Protector can be determined from the condition of the LED. The calibration marks around the controls are provided as a guide if the installer does not have access to accurate equipment. The maximum error of the calibration marks is typically 10% of the span of the control concerned.

Maintenance

The unit should be inspected to normal standards for this class of equipment. For example remove accumulations of dust and check all connections for tightness and corrosion. In the unlikely event of a repair being necessary it is recommended that the unit be returned to the factory or to the nearest Crompton Instruments Service Centre, (details on page 2).

Should repair be attempted then replacement components must be of the same type, rating and tolerance as those used in the original circuit. It is important that should calibration be deemed necessary, say after repair, then this should only be attempted if the required high accuracy equipment is available. With any enquiry please quote the full model number found on the side of the label. The unit must be recalibrated after repair.

Side labels show full connection information and data.

Low Voltage Directive:-

This product complies with BSEN61010-1

Warning

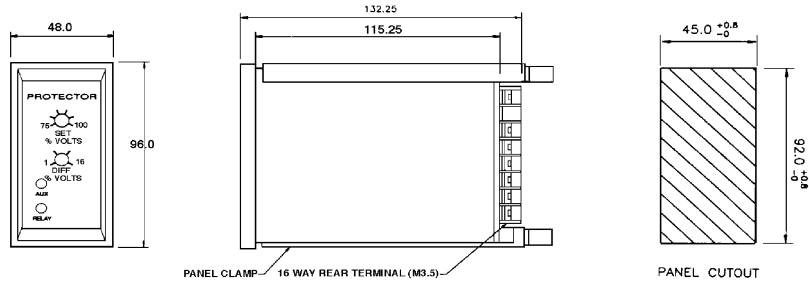
- During normal operation, voltages hazardous to life may be present at some of the terminals of this unit. Installation and servicing should be performed only by qualified, properly trained personnel' abiding by local regulations. Ensure all supplies are de-energised before attempting connection or other procedures.
- It is recommended adjustments be made with the supplies de-energised, but if this is not possible, then extreme caution should be exercised.
- Terminals should not be user accessible after installation and external installation provisions must be sufficient to prevent hazards under fault conditions.
- This unit is not intended to function as part of a system providing the sole means of fault protection - good engineering practice dictates that any critical function be protected by at least two independent and diverse means.
- Never open circuit the secondary winding of an energised current transformer.



INSTALLATION INSTRUCTIONS

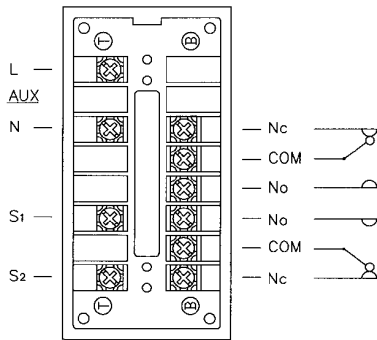
Protector Trip Relays Panel Mounted 262 Series Current, Voltage & Frequency

Dimensions

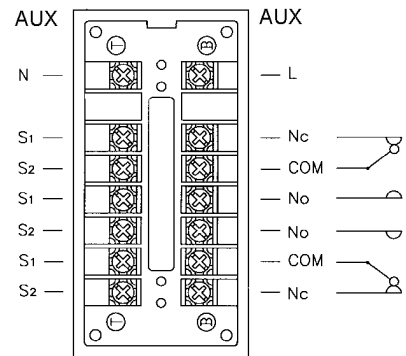


Connection Diagram

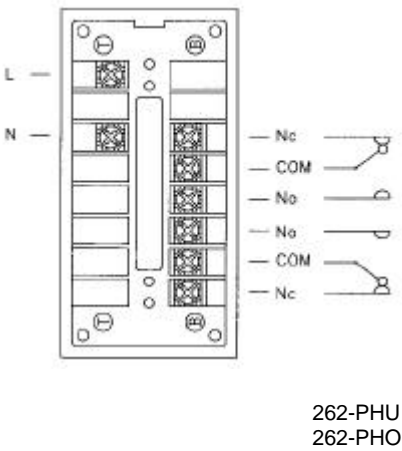
262-PAU
262-PAO



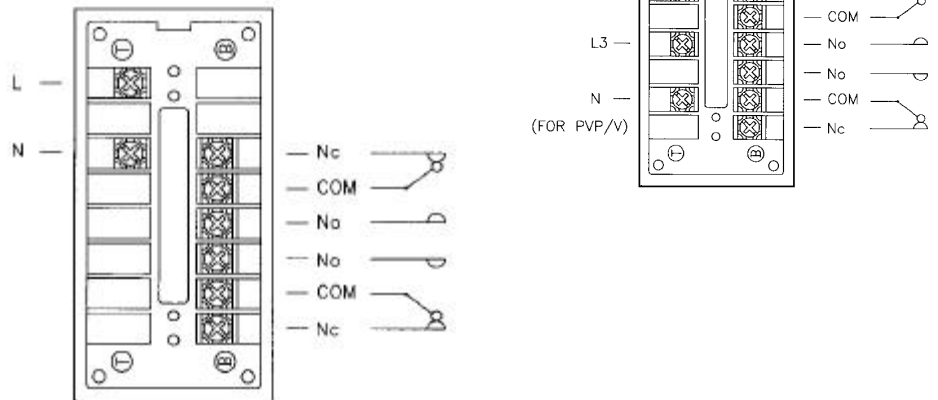
262-PAP
262-PAV



262-PVU
262-PVO



262-PVA/K/P/V



The Information contained in these installation instructions is for use only by installers trained to make electrical power installations and is intended to describe the correct method of installation for this product. However, Tyco Electronics has no control over the field conditions, which influence product installation. It is the user's responsibility to determine the suitability of the installation method in the user's field conditions. Tyco Electronics' only obligations are those in Tyco Electronics' standard Conditions of Sale for this product and in no case will Tyco Electronics be liable for any other incidental, indirect or consequential damages arising from the use or misuse of the products. Crompton is a trademark.

