

PF-15M

Asymmetrical Phase Failure Relay

Application

Asymmetrical Phase Failure Relays are a valuable supplement in 3-phase mains monitoring installations. The relay is sensitive to asymmetrical voltage variations which can occur due to uneven loads on the mains, or to failure of one of the phase lines, due to the full concerned blowing or faulty connection. An asymmetrical relay will only monitor the difference between 3 phases, and will not react to symmetrical voltage drops. It thus differs from an under-volt relay which could, for example, trip if a high powered motor were started.

Description

The PF-15M requires a supply voltage of 3-phase 415VAC 50Hz and neutral. The built-in relay is normally energised (fail safe), when both GREEN and RED LED are OFF. The green LED indicates restart time of 5s (Red), 10s (Yellow), 15s (Blue). After the 3-phase mains has come back on.

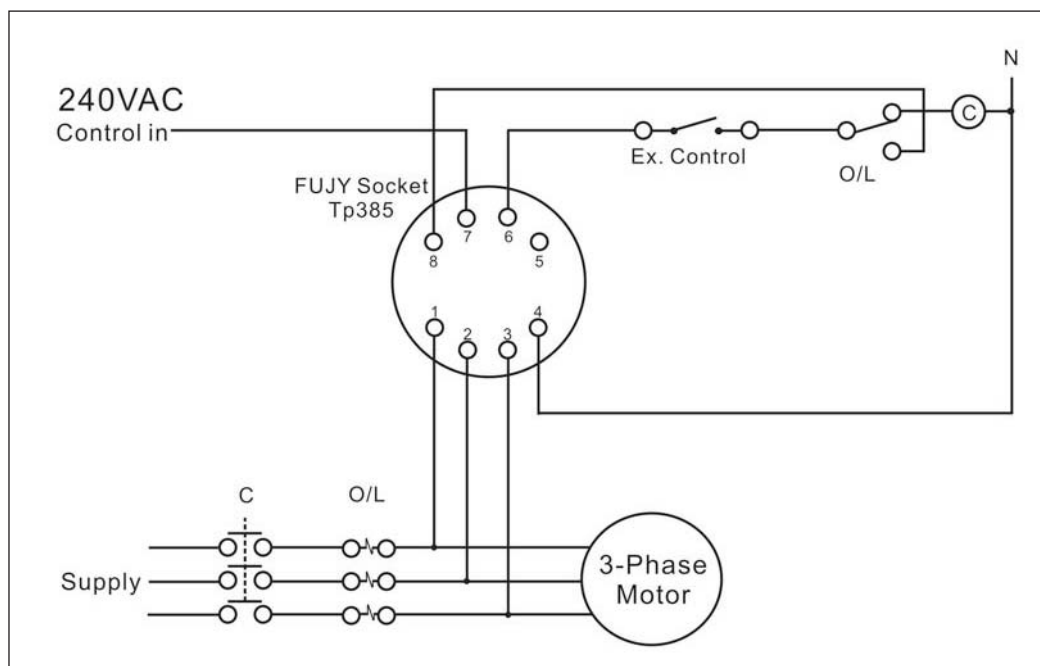
The red LED indicates tripping. Tripping occurs if the Voltage imbalance is caused by phase loss of greater than 20%. The relay will re-energise, after the imbalance is reduced by the hysteresis or it will trip again and again until the imbalance is restored. The delay time is 15min for each tripping. Relay also trips, if energised on terminal 8.

Output is a single change-over relay, contact rated at 10A 240VAC. The relay is housed in a black case, equipped with standard 8-pin octal plug.



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Connection



Elsema Pty Ltd
 3/10 Hume Rd, Smithfield
 NSW 2164
 Ph: 02 9609 4668
 Fax: 02 9725 2663
 Website: www.elsema.com

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