## **KHOKKIM** Control & Protection Relays

## Model : DRP-D

## Description : Reverse Power Relay (3-Phase 4-Wire) Utilization:

The DRP-D provides protection against reverse power for AC generators operating in parallel to each other or the mains. Two sets of contacts are provided: 21-24 is closed immediately upon supply and 11-12 is closed for normal forward current and opened upon reverse power (TRIP) condition.

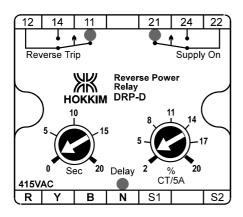
Trip point and time delay can be adjusted to prevent 'motoring' on engine failure and tripping from surges during synchronizing. The unit is calibrated for use with A/5 C.T.'s. The trip point setting is given as 2% to 20% of the reverse current detected. Thus a setting of 10% means tripping will occur when the C.T. current is 0.5A (i.e. 10% of 5A). Time delay is adjustable from 0 to 20 sec. Normal setting is 10 sec.

Power supply is taken from the generator voltage and current reference from the generator load current.

For opened circuit tripping, the tripping circuit must be connected to contacts 21-24 and 11-12 in series. In this case, tripping will occur upon reverse power condition (11-12 open) or supply failure (21-24 open).

For closed circuit tripping, the tripping circuit must be connected to contacts 21 - 22 and 11 - 14 in parallel. In this case, tripping will occur upon reverse power condition (11 - 14 close) or supply failure (21-22 close).

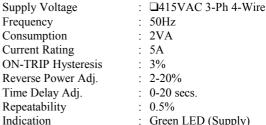
There are three LEDs to indicate Supply On (Green), Reverse Power Trip (Red) and Delay Count-down Start (Amber).



## Warning:

- 1. Relay cannot trip if Red Phase Supply Fail.
- 2. Relay not sensitive to trip if Yellow Phase Supply Fail.

**Recommendation:** Use DRP-D 1-Phase 2 Wire



**Output Contacts** 

**Technical Data** 

