

# RPR415B

### **Features**

- Reverse power monitoring
- 3-phase-4-wire system
- · Adjustable reverse power setting
- · Adjustable tripping time delay
- Indicators for auxiliary power, trip delay and trip status
- · Test button
- ANSI Code: 32

### **Product Description**

The RPR 415B relay is a directionally controlled timing relay used to protect AC generators from motoring. When such a condition occurs and the reverse current exceeded the customer adjustable preset limit and the current persists for a predetermined delay time, the trip relay operates to diconnect the circuit.

### **Technical Data**

### **INPUT**

Rated Phase-neutral voltage :220V to 240V AC Rated Phase-phase voltage :380V to 415V AC Rated frequency :50 or 60 Hz

Rated current (In) :5A

Burden :< 0.3 VA at In
Thermal withstand : 1.2 x Un , 2 x In continuous
: 1.2 x Un , 10 x In for 3 sec

Power consumption : 3 VA maximum

### **OUTPUT CONTACTS**

Rated voltage : 250 V AC/DC Contact rating : 5 A

Expected electrical life : 100,000 operations at rated current Expected mechanical life : 5 x 106 operations

### **SETTING RANGES**

Range : 2% to 20% reverse current

with 1% Hysteresis

Time delay : 0 sec to 20 sec

3-Phase 4-wire (star) or 3-Phase 3-wire (delta)

Temperature

**MECHANICAL** 

Humidity

Mounting : Panel mounting Dimension (mm) : 71(w) x 85(h) x 70(d)

**ENVIRONMENTAL CONDITIONS** 

: -10°C to 55°C

non-condensing

: 5% to 95%,

Approximate weight : 0.6 kg

### ACCURACY

Protection thresholds Hysteresis: ± 3%

Delay time : 1%

: 0-0.5s, ± 15%, 40ms minimum.

Measurements : 0.5s and above,  $\pm 3\%$  :  $\pm 3\%$ 

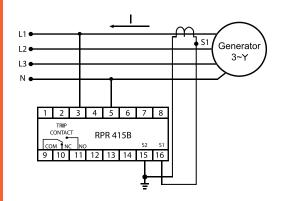
### **INDICATORS**

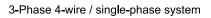
Auxiliary supply : Green indicator Delay : Red indicator Trip : Red indicator

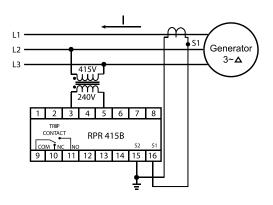


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# **Typical Application Diagram**

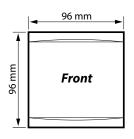


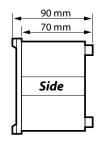


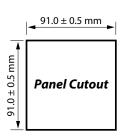


3-Phase 3 wire system

### **Case Dimensions**







## **Ordering Information**

MODEL DESCRIPTION

RPR415B Auxiliary voltage 380 ~ 440 V AC