



RPR415A

Features

- Reverse power monitoring
- 3-phase, 3 or 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

RPR 415A relay is a directionally controlled timing relay used to protect AC generators from motoring. When such condition occurs and the reverse current exceeded the customer adjustable preset limit for a predetermined delay time, the trip relay operates to disconnect 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 (I_N) : 5A
 Burden : < 0.3 VA at I_N
 Thermal withstand : $1.2 \times U_N, 2 \times I_N$ continuous
 : $1.2 \times U_N, 10 \times I_N$ 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: 5×10^6 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)

ACCURACY

Protection thresholds Hysteresis : $\pm 3\%$
 Delay time : 1%
 : 0-0.5s, $\pm 15\%$,
 40ms minimum.
 Measurements : 0.5s and above, $\pm 3\% : \pm 3\%$

INDICATORS

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

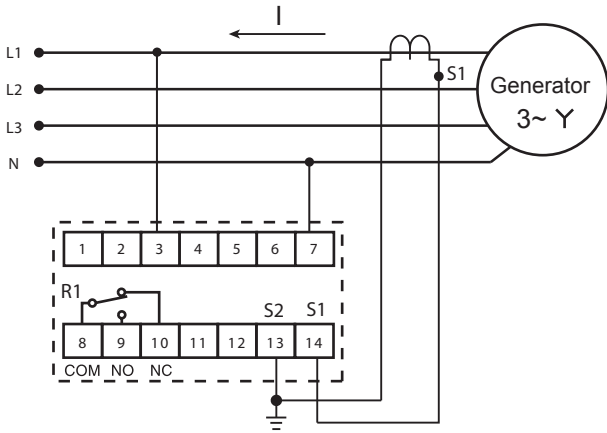
ENVIRONMENTAL CONDITIONS

Temperature : -5°C to $+55^\circ\text{C}$
 Humidity : 56 days at 93% RH and 40°C
 non-condensing

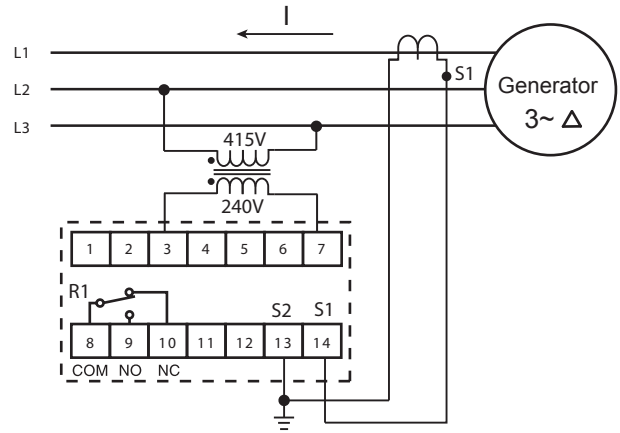
MECHANICAL

Mounting : DIN rail
 Dimension (mm) : 71(w) x 85(h) x 70(d)
 Approximate weight : 0.3 kg

Typical Application Diagram

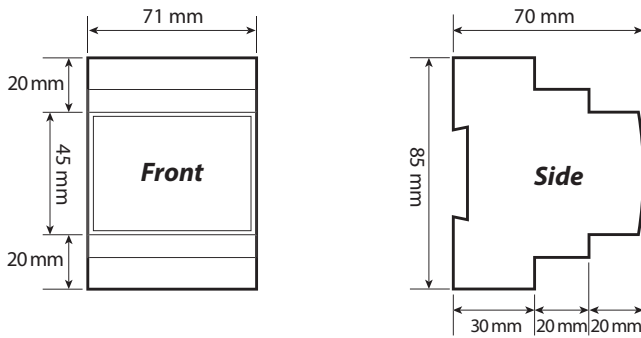


3-Phase 4-wire / single-phase system



3-Phase 3-wire system

Case Dimensions



Ordering Information

MODEL	DESCRIPTION
RPR415A	380-415Vpp AC / 220-240Vpn AC, 45-65Hz