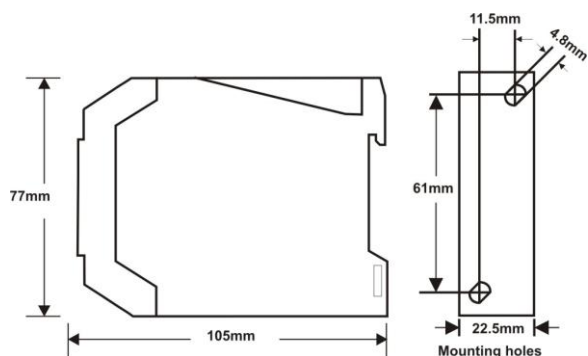


PHASE SEQUENCE RELAY



Dimensions

All dimensions in mm

FEATURES

- 3Ø / 3 wire input
- Monitors phase sequence, phase failure, phase imbalance
- High reliability
- Led indication : Relay, Fault
- Compact
- Din rail / base mounting

LED INDICATION CHART

CONDITION	RELAY	FAULT LED
Nominal	ON	OFF
Phase Reversed	OFF	ON
L-L Voltage > 500V or < 250V AC(L-L)	OFF	Blinking at 5Hz
Phase Imbalance > 30V AC(L-L)	OFF	Blinking at 2Hz

FUNCTIONAL SPECIFICATIONS

Phase Failure Trip Voltage	< 250V AC (L-L)
Over Voltage Trip	> 500V AC(L-L)
Phase Imbalance Voltage	30V AC(L-L) Fixed
Phase Imbalance Hysteresis Voltage	6V AC(L-L)
Trip Accuracy	±10V AC(L-L)
Response Time	200mSec. max.
Power On Delay	220mSec.

AUXILIARY SUPPLY SPECIFICATIONS

SUPPLY VOLTAGE RANGE	250 to 500V AC(L-L), 50Hz (±10%) 3Ø / 3 Wire (Recommended fuse : 1A, 230V AC fast blow)
NOMINAL AUXILIARY VOLTAGE	415V AC(L-L)
POWER CONSUMPTION	20VA Max

ISOLATION

Supply terminals – Contact : 1.5KV, 1min

OUTPUT SPECIFICATION

OUTPUT CONTACT	SPDT (1 C/O)
CONTACT RATING	NO : 5A, NC : 3A @ 250V AC, Resistive

ACCURACY

Setting: ± 3% of full scale

RESET

On interruption of power, On removal of fault condition

RELAY ENDURANCE

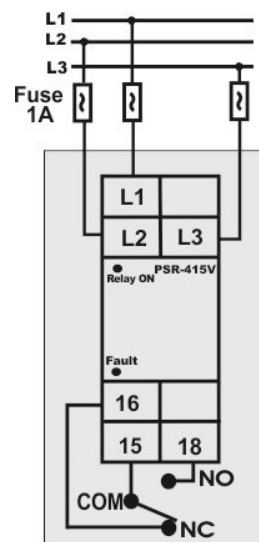
MECHANICAL : 10,000,000 ops. Minimum (1800 ops./h)
ELECTRICAL : 100,000 ops. Minimum (1200 ops./h)

AMBIENT CONDITIONS

OPERATING AMBIENT	0~55°C, 85% RH
STORAGE AMBIENT	-20°C to 85°C
HUMIDITY	95% RH non condensing

GENERAL SPECIFICATIONS

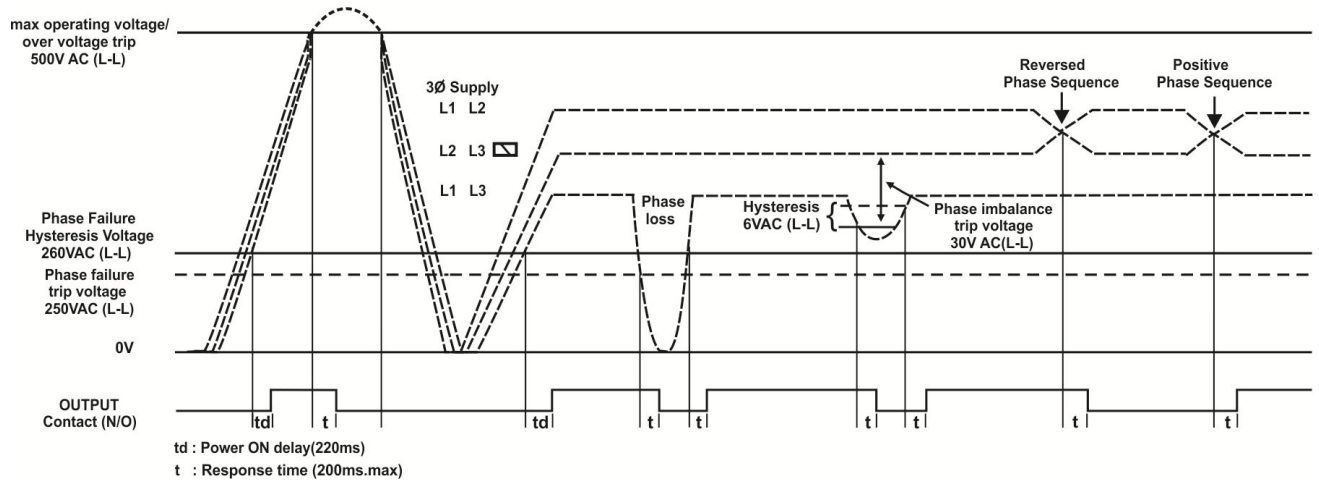
TERMINATIONS	Screw type, for 2.5mm sq. wire
MOUNTING	DIN rail / Base mount
WEIGHT	120 gms
PROTECTION LEVEL	IP40 for housing, IP20 for terminals, Finger safe terminals



TERMINAL CONNECTIONS

PSR - 415V	
DESIGN NO.	SUPPLY VOLTAGE
PSR	415V AC(L-L), 50Hz

TIMING DIAGRAM



Note : Unit will not detect phase sequence & phase loss until recovery from phase imbalance mode and fault LED will keep on blinking at 2Hz until nominal phase symmetry occurs.