

# THREE PHASE RELAY TESTING KIT

Type :- RNT-33



## GENERAL SPECIFICATIONS

Relay Test Set, RNT-33 is suitable for testing distance relays. How over other relays like over current, over voltage, under voltage, earth fault and relays having directional element can also be tested by this relay test set. The set is in two units.

- » Current source, voltage source & measuring facilities.
- » Phase shifter unit.

## SPECIAL FEATURES

- » Fault phase voltage adjustable at 80%, 90%, 100% & 110%
- » Fault current adjustable between 0 to 100%
- » Phase angle adjustment & measurement 0° to 360° in current ckt.
- » Digital time interval meter.
- » Voltage & current indications by digital meters.

## TECHNICAL FEATURES

<b>Input Voltage Output (s)</b>	415V ± 10%, 3phase, 4wire 50HZ AC.
<b>[a] Test Current</b>	0 to 1,5,10,25A,50A having 0 to 100% regulation in each tap & each phase.
<b>Rated maximum burden</b>	250 VA.
<b>Duty Cycle: i)</b>	continuous upto 10A. ii) 25A & 50A outputs are rated for intermittent duty cycle i.e. 5min "ON", 10min "OFF".
<b>[b] Test Voltages AC Voltage souece</b>	110 volts, phase to phase, 63.5 volts phase to neutral, 3phase 50 HZ AC. Only one phase voltage (R-Phase) can be adjusted 0-220V by using one voltage regulator that can be selectable.
<b>Rated maximum burden</b>	50VA / phase.
<b>Fixed DC Voltage source</b>	Isolated fixed 30V/ 110V/ 220V DC of 100VA, with out metering
<b>[c] Phase Angle Variation</b>	0 to 360° in current ckt.
<b>[d] Time Measurement</b>	0-9.999 secc. & 0-99.99secs in two selectable ranges.
<b>CURRENT CIRCUIT Loading Transformer</b>	Double winding loading transformer of suitable burden to provide corresponding current output specified before.
<b>Measuring C. T.</b>	Multi ration wound primary current transformer.
<b>Ratio</b>	1-5-10-25-50/1A with current range selectable rotary switvh
<b>Variable Auto-Transformer</b>	[1no for each phase] For smooth variation of current output at various ranges selected.

<b>Tripping Circuit</b>	The current output will be cutoff incase of any overload or even if the relay under test actuated.
<b>Metering</b>	C.T. operated ammeter [1no for each phase]
<b>Range</b>	0 to 1AAC.
<b>Scaled</b>	0 to 100% for all the selected current ranges.
<b>Accuracy</b>	±1%
<b>Resolution</b>	0.1%
<b>VOLTAGE CIRCUIT AC VOLTAGE CIRCUIT</b>	3 phase auto transformer for rated output voltage selection 80%, 90%, 100% & 110% of 110Volts by selection switch.
<b>METERING</b>	Voltmeter with phase selector switch.
<b>Range</b>	0 to 300 V.
<b>Accuracy</b>	±1%
<b>Resolution</b>	1V.
<b>DC VOLTAGE CIRCUIT</b>	Double wound multi tap isolated transformer is provided for fixed DC voltages sources 30V/ 110V/ 220V are selected one at a time by selector switch.
<b>PHASE SHIFTER CIRCUIT</b>	Static Type Phase Shifting Transformer.
<b>Primary voltage</b>	415V, 3phase, 50HZ. AC.
<b>Secondary voltage</b>	415V, 3phase, 50HZ. AC. 0 to 360° phase angle variation by coarse and fine control. Coarse control will be in steps of 60° while fine control will be of ± 30°.

Product Specifications are subject to change without notice

Manufactured By :

**NEUTRONICS MANUFACTURING CO.**

12-A, JOY COMPOUND, MAROL MAROSHI ROAD,  
ANDHERI (E), MUMBAI - 400059.

TEL: 022-2925 0745 / 2920 1296. MOB: 98194 50890 / 98190 70556.

Email: sales@neutronics.co.in / bhavin\_nmc@yahoo.com / mehul@neutronics.co.in

www.neutronics.co.in / www.neutronics.in

Marketed By:



# THREE PHASE RELAY TESTING KIT

Type :- RNT-33

## TECHNICAL FEATURES

<b>Capacity</b>	50VA per phase.
<b>METERING</b> <b>Phase Angle Meter</b>	0 - 360°.
<b>Resolution</b>	1% There will be provision for phase selection by selector switch.
<b>BUILT-IN-TYPE DIGITAL TIMER</b> <b>Measuring Range</b>	Resolution
<b>9.999secs.</b>	0.001sec.
<b>99.99secs.</b>	0.01sec.
<b>Display</b>	Seven segment LED.
<b>Accuracy</b>	±1% Terminals to relay contacts. Reset push button. Selector for NO & NC contact. Potential free start timer for opening or closing of auxiliary contact of the contactor. When the relay under test actuates, there will be automatic tripping of the output current circuit With the actuation of the relay under test, the timer will stop counting and the elapsed time will be latched in the display.
<b>GENERAL ARRANGEMENT</b>	
<b>The set is in two units.</b>	1) Current source, voltage source & measuring facilities. 2) Phase shifter unit.

<b>Unit having current source, voltage source &amp; measuring facilities.</b>	Current circuit, AC & DC Voltage circuits, protective circuit, contactors, measuring circuits etc. will all be housed within sturdy M.S. cabinet. Also meters, terminals, indicators, regulator knobs, timer display etc. will be fitted on the horizontal panel of the same cabinet which can be approached by opening the top hinged lid. wheels will be provided for easy movement.
<b>Phase shifter unit</b>	Static type phase shifting transformer will be housed within this M.S. unit. Input output connection socket, phase shifting "Coarse" & "Fine" knobs are fitted on the horizontal plane of the sturdy M.S. cabinet which can be approached by opening the top hinged lid.
<b>INTER CONNECTION CABLE</b>	Necessary cables of 1 meter length along with plug will be provided for inter connect-ion between two units.
<b>MAINS INPUT CABLE</b>	Four core cable of 5 meters length will be provided. All the meters will be digital type. Operational manual, Schematic Circuit Diagram, Works Test Report, Warranty Certificate will be supplied along with the set.

## OUR RANGE OF PRODUCTS :

- Transformer BDV Oil Test Sets
- Secondary Current Injection Kit
- Automatic Power Factor Control Relay
- Primary Current Injection Kit
- A.C. / D.C. High Voltage Testing Kits.
- Cont. Variable Voltage Auto Transformers.
- Transformer Turns Ratio Testers.
- Transformer Winding Resistance Tester
- Digital Micro Ohms Meters.
- Automatic Power Factor Control Relays.
- Automatic Voltage Regulating Relays.
- Digital Tap Position Indicators.
- Digital Oil Temperature Indicators
- Digital Winding Temperature Indicators.
- Digital Set Point Relays for Current/Voltage.
- Digital Multifunctional Power Energy Meters
- Auto Reclosing Relays.
- Insulation Testers.
- Earth Testers.
- Digital Panel Meter

Product Specifications are subject to change without notice

Manufactured By :

**NEUTRONICS MANUFACTURING CO.**

12-A, JOY COMPOUND, MAROL MAROSHI ROAD,  
ANDHERI (E), MUMBAI - 400059.

TEL: 022-2925 0745 / 2920 1296. MOB: 98194 50890 / 98190 70556.

Email: sales@neutronics.co.in / bhavin\_nmc@yahoo.com / mehul@neutronics.co.in

www.neutronics.co.in / www.neutronics.in

Marketed By: