

MODEL 472 PHANTOM LOAD FOR WESTERN POWER

FEATURES & SPECIFICATIONS.

MAINS SUPPLY: 3 phase, 4 wire 240V/415V 50Hz & earth.

A 3 phase 10A circuit breaker is used to protect the unit.

Neon indicators show that the 3 phases are live.

OUTPUT VOLTAGE:

The output configuration is switchable from star to delta.

3 phase, 4 wire star 240V/415V nominal.

Maximum 0.7A, 160VA.

The output voltage is controlled by 3 "Variacs", and is adjustable 0 – 110%.

The output is not isolated from the mains supply.

3 phase, 3 wire delta 110V nominal.

In this configuration the output from the 472 is isolated from mains supply.

The N terminal is earthed to chassis and mains earth.

The output of VA and VC terminals is 110V nominal w.r.t. N terminal.

The output voltage is controlled by 2 "Variacs", and is adjustable 0 – 110%.

OUTPUT CURRENT:

The 3 phase output current is available from either the COM to 50A terminals or COM to 5A terminals.

In any range it is controlled from 0% to 100% by 3 "Variacs".

The maximum output is 50A @ 1V from the 50A terminals.

The maximum output is 5A @ 3V from the 5A terminals.

The current output phase angles w.r.t. mains voltage can be varied with a position switch.

The switch gives 0deg, 30deg lag, 60 deg lag and 30deg lead.

In delta configuration the 0deg position will give A phase current at 30deg lag to the VA voltage, and C phase current at 30 deg lead to the VC voltage.

METERS.

The voltage at the VA, VB and VC terminals w.r.t. the N terminal is measured with a digital voltmeter scaled 0 – 300V, and a 3 position switch selects the voltage to read.

The current are also measured with a digital meter and 6 position switch.

When using the 50A output terminals use the 50A – A position to read A phase current.

Similarly the B and C phase current can be read.

When using the 5A output terminals use the 5A – A position to read A phase current.

Similarly the B and C phase current can be read.

CASE SIZE & WEIGHT.

The model 472 case is made of anodized aluminium.

There are spring loaded handles on both sides.

Polycarbonate skids are fitted to the underside of the case for easy handling.

Two 80mm fans are fitted completed with filters to circulate air within the unit, which is normally only needed if the outputs are used for more than 15 minutes at maximum VA rating.

The overall size of the Model 472 is 460mm wide X 320mm deep X 20mm high.

The weight of the complete unit is 26kg.