

## OLR 500

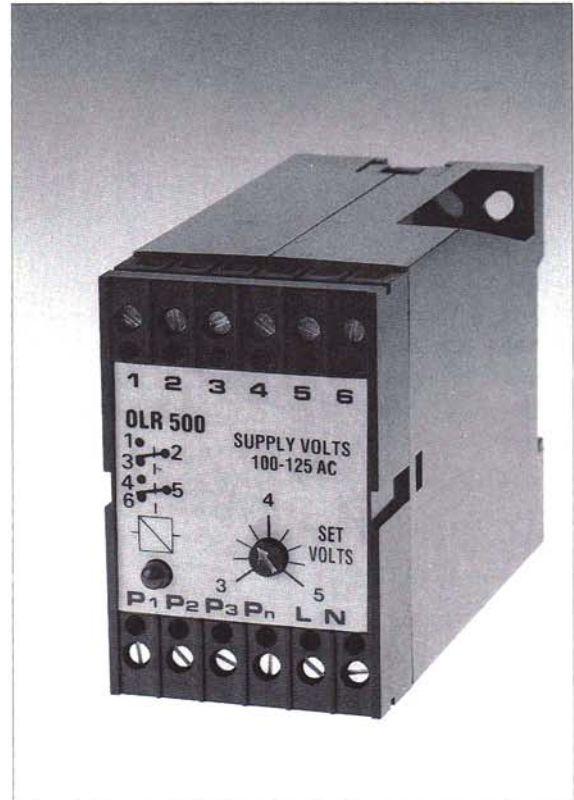
### THREE PHASE OVER CURRENT RELAY A.C. AUXILIARY SUPPLY

Mains or generator overload protection is provided by the monitoring of a three phase, four wire, low voltage signal proportional to the load current.

The low voltage signal is derived from three burden resistors, each connected across a current transformer (CT), these being in turn connected in star formation (see connection diagram). The value and rating of the burden resistance is chosen according to the CT output current at full load such as to generate a voltage of between 3 and 5 volts across the resistors. e.g. for a 1Amp CT output at full load, 4.7 Ohm/5W resistors can be used.

Once known, the full-load equivalent voltage is user set on the front facia. Providing the auxiliary supply is healthy and the three phase input voltages remain below the set level, the unit's two pole change-over relay is energised. Should any of the inputs rise above this level the relay will de-energise after a delay which is proportional to the level of overload. Typical response times are: 10% over the preset level - 5mins; 20% overload - 30secs; 100% overload - 8secs; 200% overload - 1.8secs; 300% overload - 0.1secs. An LED indicates when the relay is energised.

The unit is powered from an auxiliary mains supply and enclosed in a DIN rail mounting case.

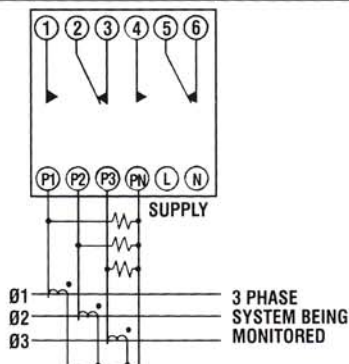


**OLR500** Three phase over current relay.

### Product Specifications

Nominal Supply Voltage	110V ac or 240V ac
Input at full load	3 - 5V ac
Nominal Operating Frequency	50/60/400Hz
Relay	DPCO contacts rated 5A @ 240V AC1 3 x 10 <sup>5</sup> operations
Ambient Temperature Range	-10°C to +55°C
Response Time	Load Variable (see curve)
Weight	358g

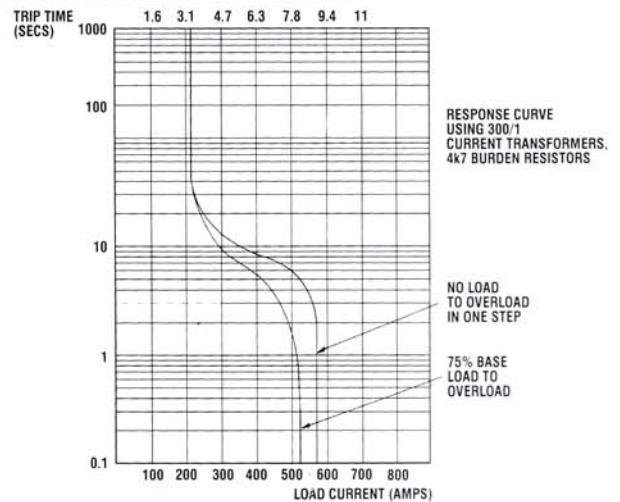
### Connections



**When ordering, please specify:**

- a Supply voltage

### Overload / Time Response



### Dimensions (mm)

