



**MIDLANDJAY**

**THE POWER TO PROTECT**

**tectrite**

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## Supply Monitoring Relay CLA4537 - Current Level Relay

The CLA4537 is a current level relay intended for monitoring the supply to either a single or 3 phase ac motor for an over-current condition.

The unit incorporates an adjustable start up delay timer providing the ability to ride through a start up surge of up to 10 seconds duration.

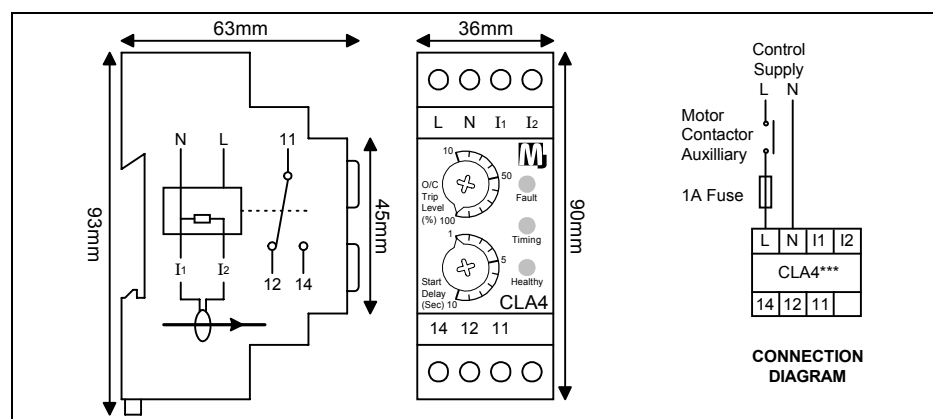
A calibrated control allows accurate setting of the over-current trip level through the range 10-100% of the relays nominal current rating.

Isolation of the monitored current is provided by an external current transformer type CT1010. The C.T. is supplied with the relay and must be connected to terminals I1 & I2. The current carrying conductor is then passed through the C.T. No other connection is to be made to I1 or I2.

The 'Start delay' timer prevents the unit from tripping for a timed period from application of the control supply, indicated by the yellow 'Timing' LED. After the time period has elapsed and providing the current has by then fallen to less than the set over-current trip level the green 'Healthy' LED will illuminate. If the current subsequently rises above the set O/C trip level the output relay will energise immediately and the red 'Fault' LED will illuminate. The unit will reset automatically when the current level returns to normal.

Control supply to the unit should be via a 1 or 2 amp H.R.C. fuse or M.C.B.

<b>Control supply:</b>	24Vdc $\pm$ 10%
<b>Current rating:</b>	20 amps AC (nominal)
<b>Overload rating:</b>	50 amps continuous 100 amps for 30 seconds 160 amps for 5 seconds
<b>O/C trip level:</b>	Adjustable 10% to 100% of rated current
<b>Reset level:</b>	5% below the trip level
<b>Start delay time:</b>	1-10 seconds (adjustable)
<b>Trip delay time:</b>	0.1 seconds (approx.)
<b>Relay contacts:</b>	Single-pole changeover
<b>Contact rating:</b>	250Vac 3A ( $\cos\phi = 1$ ) 250Vac 1A ( $\cos\phi = 0.4$ )
<b>Isolation voltage:</b>	2kV ac for 1 minute
<b>Power consumption:</b>	1 watt
<b>Temperature range:</b>	-10°C to 50°C
<b>Construction:</b>	Din rail mounted housing to IP20
<b>Weight:</b>	Relay: 100 grams, CT: 70 grams



# DATA SHEET

CLA4537/04/10