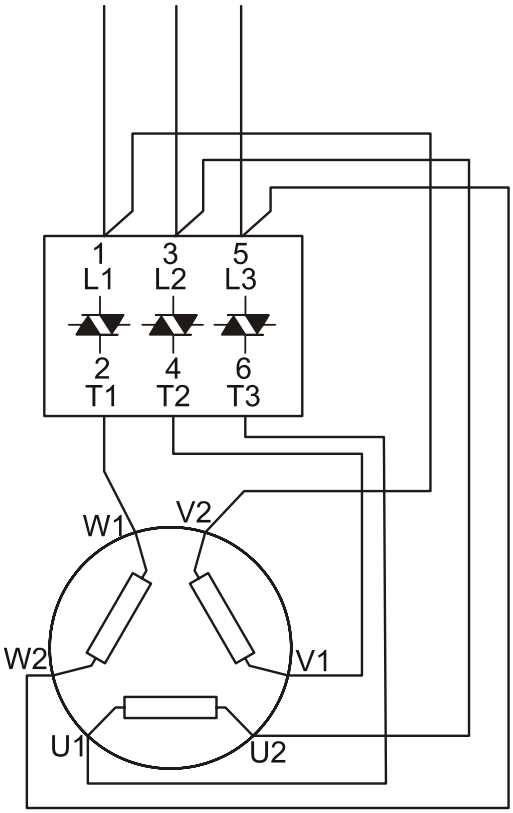
# Using Soft Starters ‘In The Delta’

To connect the Soft Starter in the delta, all six wires from the motor must be connected to the starter, as in a Star/Delta system, and be connected as in the diagram below:





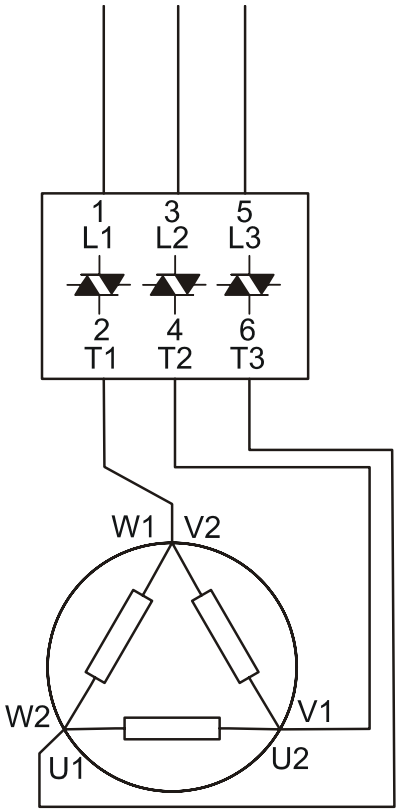
Using Fairford Soft Starters in the delta has a number of advantages:

- In the delta the soft starter only conducts the phase current (around 58% of the line current) this mean that a smaller soft starter can be used for the same kW of motor.
- In addition to this if you are replacing a Star/Delta starter the existing 6 power cables can be used, to minimise on wiring costs.

In addition to these advantages you still have all the other positives of using a Soft Starter to start AC motors.

# Using Soft Starters ‘In Line’

To connect the Soft Starter in the line only 3 wires need to be brought from the motor to the soft starter and connected as in the diagram below. When a Soft Starter is wired in line, it conducts all the line current so must be sized acordinly.





The advantages of connecting the soft starter in the line are:

- Reduced cabling costs because only 3 wires to the motor are needed.
- Ease of installation because of the reduced cabling
- Energy optimisation, which allows curtain applications to save money.

In addition to these advantages you still have all the other positives of using a Soft Starter to start AC motors.

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