

## Wiring Marathon Black and Blue Max Motors with Unidrive SP

### Objective

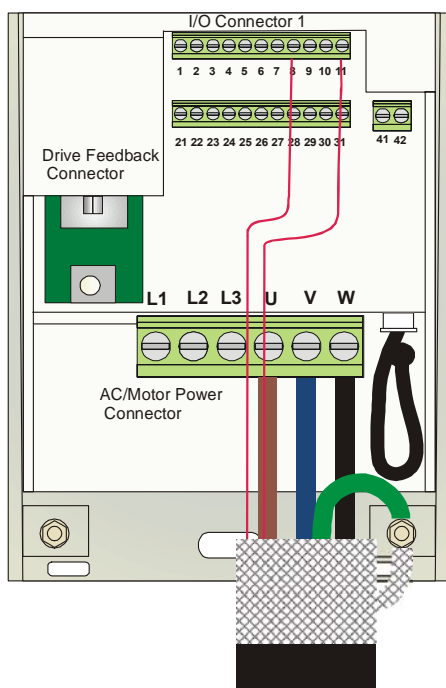
To correctly wire a Marathon vector duty motor for closed-loop operation.

### Overview

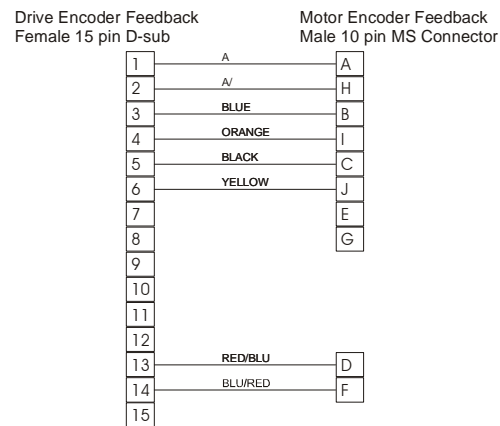
Using an AC Induction motor in a closed-loop application requires a feedback device to be mounted to the back of the motor. The feedback device relays shaft position to the drive, so that the drive can close the position loop. These signals along with the motor power need to be wired properly in order for the drive to correctly interpret them.

### Products Covered

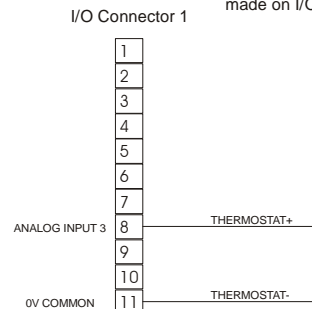
- Marathon Black Max and Blue Max fitted with Dynapar HS35 Incremental Encoder



230V Operation



NOTE: Thermal connections are made on I/O Connector 1



480V Operation

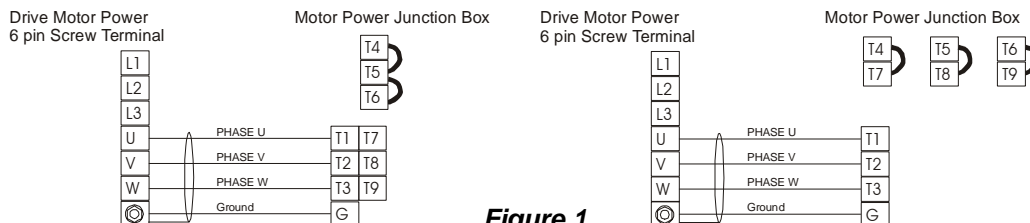


Figure 1

### Solution Summary

This Application Tool shows the correct installation of a Marathon Vector Duty motor running in Closed-Loop operation with an Unidrive SP.