

SP™ Series
AC Brushless
Axis Servodrive

Addendum

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P/N MNLSPAD-3.0



Solutions in Motion

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Introduction to the Addendum

Subsequent to the original design of the SP series AC Brushless Axis Servodrive, a design change was made to provide a separate 110V power input for the servodrive control electronics through a special two pin Phoenix style connector, P22 on the silkscreen of the servodrive. The standard documentation for the SP series does not cover that newly added connector. This Addendum explains the connector and how best to use it.

Control Power (P22)

The *Control Power* input supplies the SP's servodrive control electronics with power. The Control Power may be applied without the AC Power Mains. This allows a motion controller to maintain axis encoder data, user interface control and machine control when the AC Power Mains are off.

Disconnecting the AC Power Mains via a contactor is strongly suggested (and is part of NEC and NEMA safety requirements) during emergency stop "E-Stop" conditions. The Control Power may remain applied during E-Stop conditions for fault reporting and analysis.

If desired, the Control Power may be obtained from the same source as the AC Power Mains using only one of the three phases. However, this does not provide the option of keeping the drive electronics powered while ensuring no servomotor movement by disconnecting the AC Power Mains during an e-stop condition.

