**AC Servo System Wiring**

Standard wiring examples

---

**Position (Pr & Pt) Control Modes**

- **230 VAC** Single-phase or Three-phase 50/60 Hz
- **SIGN**/**SIGN**
- **PULSE**/**PULSE**
- **T-REF**
- **GND**
- **R**
- **S**
- **T**
- **L1**
- **L2**
- **CN1**
- **CN2**
- **CN3***

---

**Default Settings**

- **Default Settings**
- **Position (Pr & Pt) Control Modes**
- **PCS0 (Pr mode) / TCS0 (Pt mode)**
- **PCS1 (Pr mode) / TCS1 (Pt mode)**
- **±8V 1mA max**
- **100 mA max**
- **1.5k Ohm min load impedance**
- **Use diode if driving inductive load**
- **N(3kW only)**

---

**Modbus communication to PC, PLC, etc**

- **RS422 TXD–**
- **RS422 TXD+**
- **RS422 RXD– & RS232 RX**
- **RS422 RXD+**
- **RS232 TX**
- **GND**
- **MON 1**
- **MON 2**
- **SG**

---

**tMNC-155** Motion Control

For the latest prices, please check AutomationDirect.com.
AC Servo System Wiring

Standard wiring examples (continued)

**Velocity and Torque Control Modes**

This wiring diagram shows basic wiring only, and additional wiring configurations are possible for some I/O. Refer to the "Installation and Wiring" chapter of the User Manual for more detailed wiring information.

† Remove jumper at D if using External Resistor

†† Remove jumper if external 24VDC is used

†† Optional user Supplied 24 VDC

Default Settings

Servo Ready
At Zero Speed
Brake Control
Alarm
User Supplier 24 VDC

100 mA max
1.5k Ohm min load impedance
Use diode if driving inductive load

Servo Drive

+5V
GND

Internal Supply 12Vdc

+10V
12VDC; optional for 0~10V analog signals

Connect 35 to 17 only with open collector pulse

Servo Enable
TrqLimEn(Vmode)/SpdLimEn(Tmode)
VCS0(Vmode) / TCS0(Tmode)
VCS1(Vmode) / TCS1(Tmode)
Alarm Reset
Reverse Inhibit Overtax
Forward Inhibit Overtax
Fault Stop

Default Settings

RS422 TXD–
RS422 TXD+
RS422 RXD– & RS232 RX
RS422 RXD+
RS232 TX
GND

Line Driver
Encoder
Signal Output
(scalable pulse output)
40 mA max

Modbus communications to PC, PLC, etc.

* Use connection kit part # ZL-RTB50 & ZL-SVC-CBL-50(-x) for CN1 terminal connections.
** Use cable part # SVC-Exx-0x0 for CN2 terminal connections.
*** Use cable part # SVC-MDCOM-CBL for CN3 terminal Modbus network connections.

For the latest prices, please check AutomationDirect.com.