Standard wiring examples

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.

Position (Pr & Pt) Control Modes

- **230 VAC**
  - Single-phase or Three-phase
  - 50/60 HZ

- **MCCB**
  - SVC-Exx-0x0
  - Encoder Cable Set
- **MC**
  - Servo Drive
  - SVC-Pxx-0x0
  - Encoder Cable Set
- **Pulse Generator**
  - 20kΩ
  - (12VDC for analog signals; optional)
- **Connect 35 to 17 only with open collector pulse**
- **Servo Enable**
  - Com.Trig. (Pr mode)/Clear Com. (Pt mode)
  - PCS0 (Pr mode) / TCS0 (Pt mode)
  - PCS1 (Pr mode) / TCS1 (Pt mode)
  - Alarm Reset
  - Reverse Inhibit Overtravel
  - Forward Inhibit Overtravel
  - Fault Stop
- **Servo Ready**
  - At Zero Speed
  - Homing Complete
  - At Position
  - Alarm
- **User Supplier 24 VDC**
  - Default Settings
  - 100 mA max
  - 1.5k Ω min load impedance
  - Use diode if driving inductive load

- **Default Settings**
  - External P
  - Internal D
  - ±8V
  - 1mA max
  - Use connection kit part #s ZL-RTB50 & ZL-SVC-CBL-50(-x) for CN1 terminal connections.
- **† Optional user Supplied 24 VDC**
  - +5V
  - GND

- **Regenerative Resistor†**
  - SVC-Exx-0x0
  - Power Cable Set
  - Encoder

- **CN1**
  - Internally Supplied 24 VDC
  - (D can sink or source)
  - CN1*
  - CN1**
  - CN3***
  - Modbus communication to PC, PLC, etc

- **‡ Remove Jumper at D if using External Resistor**

- **+5V GND**

- **CN1*** Use cable part # SVC-MDCOM-CBL for CN3 terminal Modbus network connections.

* Use connection kit part #s 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.
Standard wiring examples (continued)

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.

Velocity and Torque Control Modes

- 230 VAC Single-phase or Three-phase 50/60 Hz
- 12VDC; optional for 0-10V analog signals
- Connect 35 to 17 only with open collector pulse
- Remove jumper if external 24VDC is used
- Optional user supplied 24 VDC
- Servo Enable
- TrqLimEn(Vmode)/SpdLimEn(Tmode)
- VCS0(Vmode) / TCS0(Tmode)
- VCS1(Vmode) / TCS1(Tmode)
- Alarm Reset
- Reverse Inhibit Overtravel
- Forward Inhibit Overtravel
- Fault Stop

- Servo Drive
- Servo Motor
- Encoder
- Servo Ready
- At Zero Speed
- At Speed
- Brake Control
- Alarm
- User Supplier 24 VDC

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

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

- Modbus communications to PC, PLC, etc.

* Use connection kit part # ZL-RTE50 & 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.