ICC

ETH-100

Features

Ethernet
IEEE 802.3 10BaseT Ethernet compliant. Shielded RJ45 connector accepts standard CAT5-type 8-conductor unshielded twisted-pair (UTP) patch cables.

Drive Connections
3 independent common serial ports for direct connectivity to Toshiba 7-series, 9-series or VF-nC1 Adjustable Speed Drives (ASDs).

Supported Protocols
Modbus TCP/IP, release 1.0 (Conformance class 0 and partial class 1 and class 2 compliant). Allows up to 8 simultaneous Modbus TCP/IP client connections.

Configuration
Embedded HTTP server, ICMP (ARP) ping configuration, text-based console interface via MMI (RS-232) port with included cable, and telnet text based console interface.

Point Database
Allows flexible mapping between Modbus TCP/IP registers and Toshiba ASD registers. Point databases can be uploaded/downloaded using Xmodem.

Network Timeout Processing
The concept of a master client device has been established, along with a user-configurable timeout time (0.5s-30.0s).

Field-Upgradeable
As new firmware becomes available, the ETH-100 unit can be upgraded in the field by the end-user.

DIN-Rail Mount Enclosure
The enclosure is provided with a mounting mounting clip attached to the rear of the unit.

The ETH-100 provides ethernet connectivity to up to three Toshiba 7-series, 9-series or VF-nC1 Adjustable Speed Drives (ASDs) with Modbus TCP/IP, release 1.0 (Conformance class 0 and partial class 1 and class 2 compliant).

The ETH-100 provides flexible mapping between Modbus TCP/IP registers and Toshiba ASD registers. This is accomplished through an element called the point database. The point database is entirely user-configurable, and provides the end-to-end mapping information that allows Modbus TCP/IP requests to be routed to the correct locations on the connected Toshiba ASDs. When properly configured, the ETH-100 will allow a Modbus TCP/IP master to engage in a seamless dialogue with connected Toshiba ASDs. Point databases can be uploaded/downloaded to/from the unit using the Xmodem serial protocol, allowing the user to clone ETH-100s with the same configuration.

The ETH-100 can be configured via embedded web server, which uses the HTTP protocol, and can be accessed by any web browser such as Microsoft Internet Explorer. The ETH-100 also provides a text based console interface via MMI (RS-232) port or Telnet.