Introduction

Since the beginning of civilization, people have converted fiber into yarn and knitted the yarn into fabric for daily use. What we now call textile manufacturing is the process of twisting animal hair, plants or other fibers and transforming these raw materials into flexible yarn.

Today, most textile manufacturing industries choose to import textile machinery. But when components wear out (see Figure 2 for AC motor drive and the PLC host controller), the repair is expensive and the wait is long. If you are lucky, the components will arrive in one or two months but sometimes it may take up to six months or even a year. By replacing the old system with Delta's automation system structure, these problems are solved.

Real Case Application
With solid experience and advanced technology, Delta's IABU offers efficient and reliable solutions and service. We strive to be your most trustworthy partner.

System Structure

CAN is a widely adopted communication protocol in the automation field. Delta has added the CANopen communication protocol as a supporting feature in our newly released automation products, the DVPCOPM-SL CANopen communication module (PLC), the C2000 series AC motor drive and the VFD-EC series AC motor drive. The built-in CANopen protocol enables the CAN bus network to transfer data promptly and allows synchronous action.

The Software: CANopen Builder
Delta’s CANopen Builder Software sets up the mapping parameters of the Master drive register. Every DVPCOPM-SL master station supports each RxPDO and TxPDO up to 390 bits.

Registers in the PLC & the mapping parameters of an AC motor drive

The main technology barrier to replacing the old system with a new controller or AC motor drive is the lack of communication protocol information. Most of the internal protocol formats are not attainable, which leads to system integration difficulty. However, the textile industry could facilitate the integration process by offering details on internal communication protocol and pin definition.

For more information on Delta’s industrial automation products, visit our website at: www.delta.com.tw/industrialautomation

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