

Preferred Implementation Distributed CANopen Optimized

*Easy to implement and use
for distributed installations...*



Typical applications

Machining

- Wood working
- Cutting machines
- Sanders...

Materials Handling / Hoisting and storage

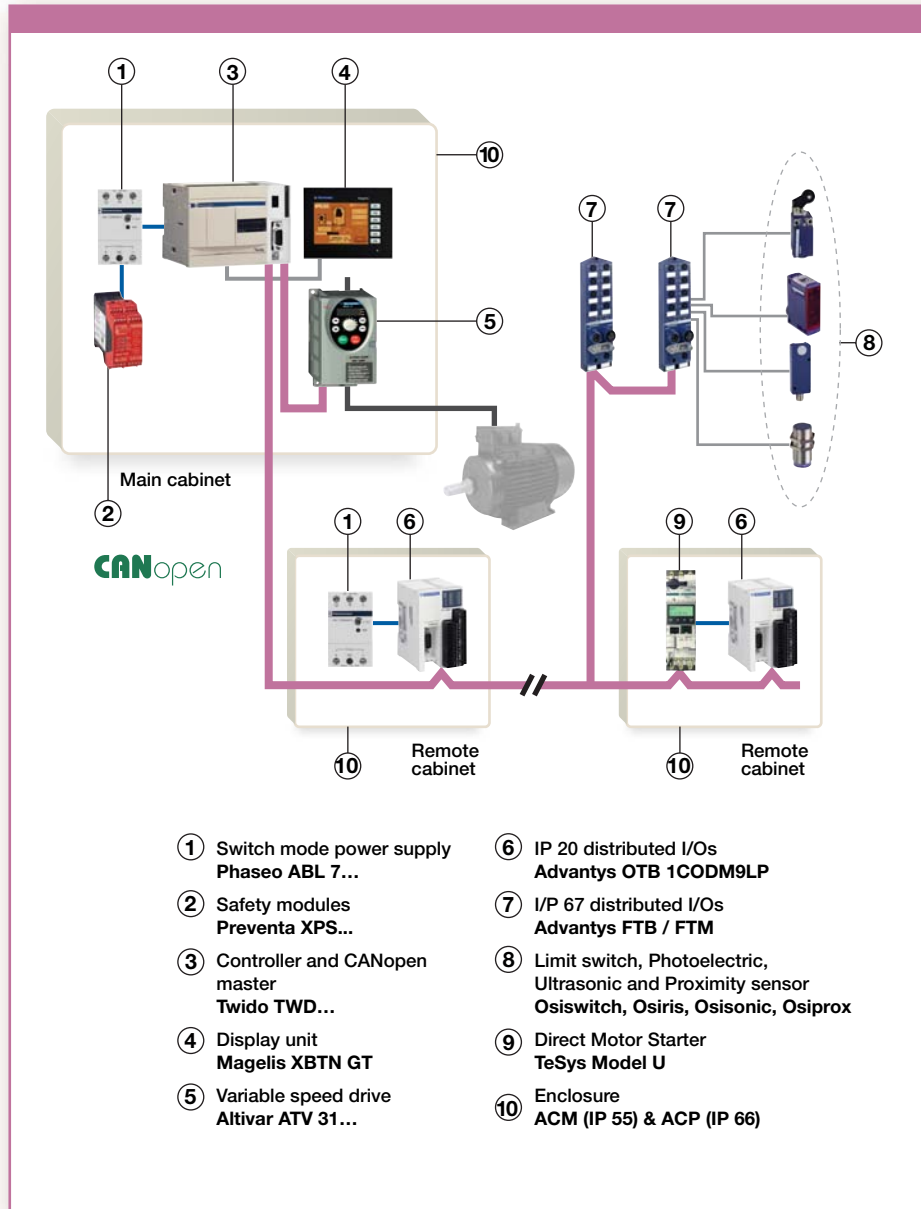
- Bridge cranes
- Building site cranes Elevating platforms
- Horizontal stacking machines
- Gantries

Building and Environment

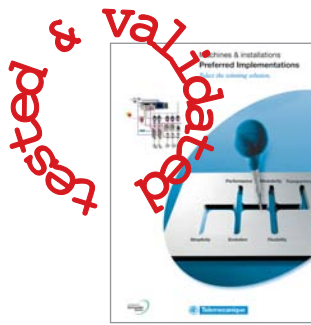
- Lighting, cooling, heating, air ventilation management systems
- Access, control and monitoring management...

Other machines

- Textile machines
- Industrial washing machines
- High speed lifts...



Dedicated to machines and installations requiring distribution of automation. This implementation combines in a distributed implementation a Twido programmable controller, an Altivar 31 variable speed drives, Direct Motor Starter TeSys Model U, a Magelis XBTN/R or GT display unit and Advantys OTB and FTB distributed I/Os. This implementation guarantees you installation simplicity and speed as well as faultless operation of the assembly thanks to a complete cabling offer and software with function blocks for drives on CANopen.



Advantages

Consistency of solution

The synergy of high quality products provides a solution guaranteed by a leader in automation.

Tested, validated and documented

A complete user guide gives all the details for installing and building your application in confidence.

Large choice of partners

The openness of CANopen provides a large choice of products



Quick installation for distributed I/Os

Communication becomes transparent between Twido and a basic OTB module after its configuration in Twidosuite.



Simplified HMI Integration

Twido and XBTN use the same symbol table



Easy configuration and communication with drives

A single Twidosuite tool for PLC programming and ATV31 CANopen variable speed drive configuration using "Drive" functions blocks.

That makes it easy to add drives to your installation



Characteristics

Performance

- Controller: Twido
- I/O: up to 80
- Motor control (up to 4):
 - variable speed drive ATV31
 - Servo drive Lexium 05 (instead of 2 drives max)
 - Direct Motor Starter TeSys Model U
- HMI: push-buttons and lights, text / graphic display
- Typical cycle time: 50 - 100 ms
- Safety: Preventa module

Installation

- Machine type: stand alone
- Cabling: CANopen
- Software: libraries and function blocks to ease programming
- CANopen configuration tool integrated in Twidosuite
- Quick connection
- Easy to duplicate and to save your PLC application by using EEPROM
- Distributed in small cabinets

Constraint

- Installed in a cabinet: to achieve higher IP level, ACM (IP 55), ACP (IP 66)
- Option: cables for heavy duty or mobile installation
- Oil resistant

Cost

- Easy engineering
- Minimizing programming and commissioning cost
- Optimized cabling with CANopen, cost reduction (up to 20%)

Size

- Network length: at 250kbit/s (default) the length in 250m, 100m at 500kBit/s
- Distributed machine or equipment > 20m²

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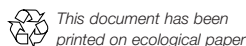
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A platform and a dedicated team at your service

Each preferred Implementation is based on a selected platform for optimal results and updated according to the evolution of our product offer. A team of specialists can perform customized tests to validate your configuration of the Preferred Implementation.



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