Preferred Implementation
Compact Evolutive Optimized

Easy to implement and to use, open to evolutions…

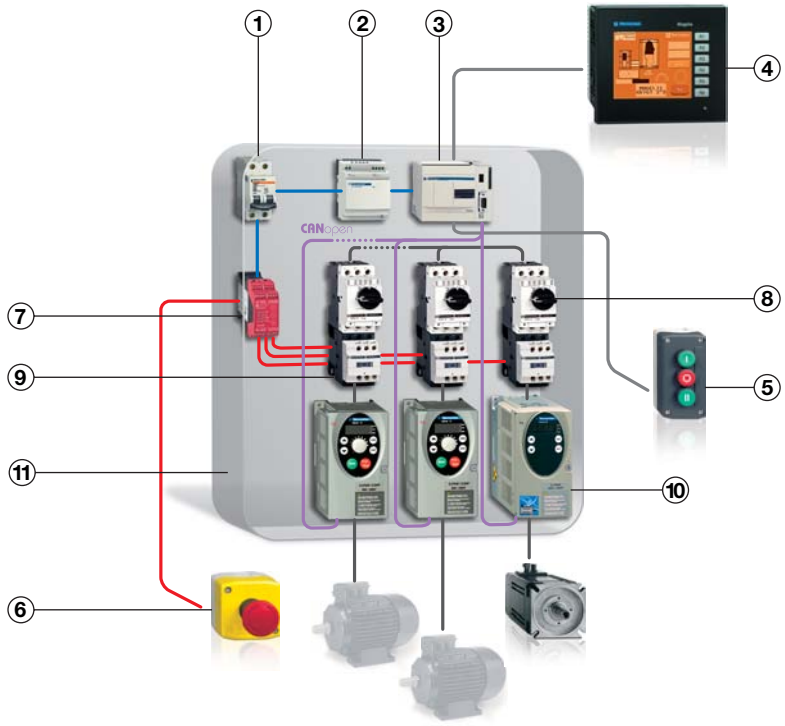
Typical applications

Machining
- Wood working machines
- Cutting machines
- Sanders
- Sawing machines…

Packaging
- Filling machines
- Bottling machines
- Bagging machines
- Wrapping machines
- Corking machines
- Labeling machines
- Pallet wrappers…

Pumping
- Booster stations
- Compressors
- Vacuum pumps
- Pumps (hydraulic, air, fire, etc.)…

Other machines
- Textile machines
- Horticulture
- Industrial washing machines…



1. Circuit breaker **Multi 9**
2. Switch mode power supply **Phaseo ABL 7...**
3. PLC and CANopen master **Twido TWD...**
4. Display unit **Magelis XBTN/R or GT...**
5. Push-buttons **Harmony XALD...**
6. Emergency stop **Harmony XALK...**
7. Safety modules **Preventa XPS...**
8. Motor circuit breaker **TeSys GV2...**
9. Contactor **TeSys K/D...**
10. Variable speed drive **Altivar ATV 31**
11. Enclosure **ACM (IP 55) & ACP (IP 66)**

Dedicated to compact machines and installations, this implementation combines a CANopen network with Twido programmable controller, Altivar 31 variable speed drive and Magelis XBTN/R/GT display unit. This implementation guarantees modularity and flexibility of your installation, due to the performance and efficiency of CANopen network. Software function blocks allow easy and fast integration of your application.

a brand of Schneider Electric

Telemecanique

Characteristics

Performance

- Controller: Twido
- I/O: up to 80
- Motor control (up to 4)
  - Direct Motor Starter Tesys Model U
  - Variable speed drive ATV31
  - Servo drives Lexium 05 (instead of 2 drives)
- 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 integrated
- Easy to duplicate and to save your application by using EEPROM

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

- Compact machine or equipment < 20 m²

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.

CANopen

Simplified HMI Integration and installation

Twido and XBTN use the same symbol table.
One cable for power supply and communication (Modbus link).

Easy configuration and communication with drives

A single Twidosuite tool for PLC programming and ATV 31 CANopen variable speed drive configuration using “Drive” function blocks. That makes it easy to add drives to your installation.

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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