

Preferred Implementation Distributed CANopen Performance

The flexibility and openness with performance and integration of services



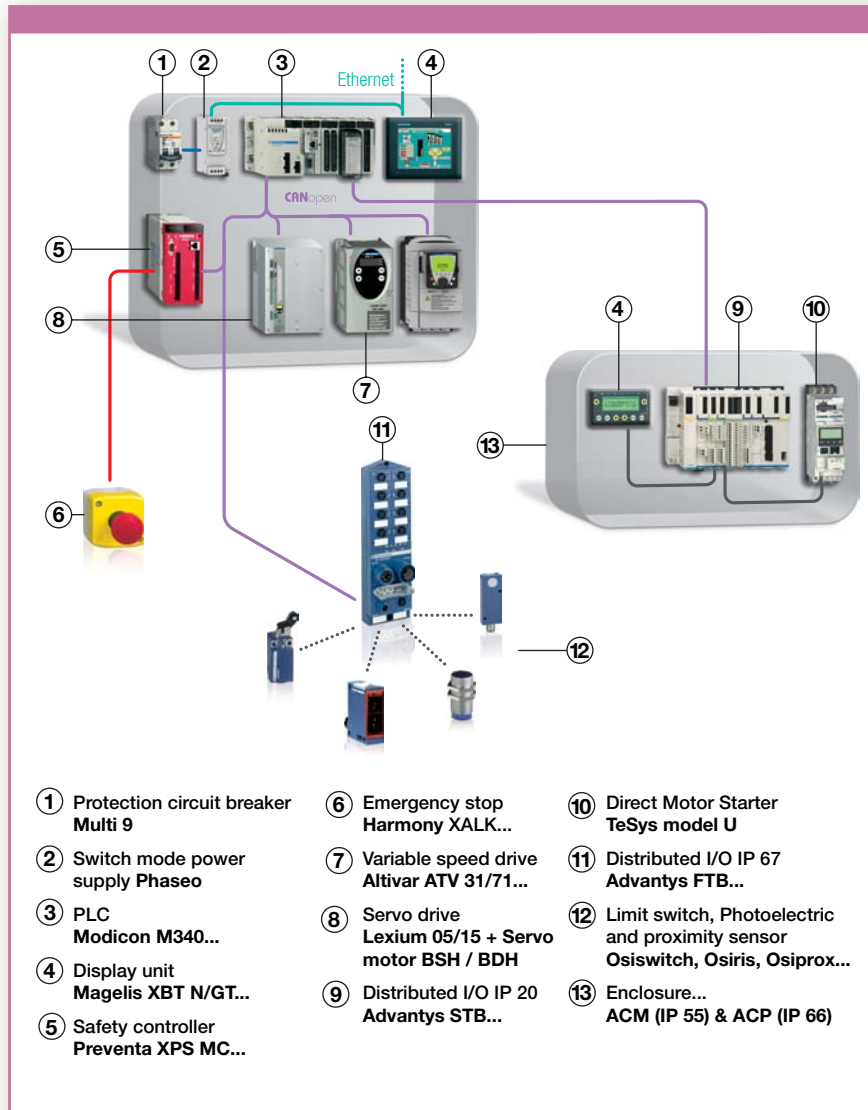
Typical applications

Industry

- Food & beverage
(Bottling line)
- Material Handling - Transport
(conveying, storage, mobile shelving)
- Metal working
(bending machines,...)
- Packaging
(boxing machine, cartoning machine, palletizers,...)
- Woodworking...
- Other machines
assembly line, printing machines

Infrastructures

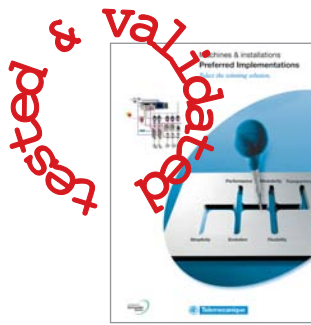
- Electrical distribution substations



This implementation is the best answer to address large machines and installations that requires performance and the distribution of devices for modularity.

It combines a Modicon M340 programmable controller with CANopen embedded to manage Altivar 31/71 variable speed drives, Lexium 05/15 servo drives, Advantys distributed I/Os and a Magelis XBT GT display unit with an Ethernet TCP IP communication.

High level features for devices configuration and PLC programming allow the experts in automation to perform their knowledge to get the level of performance required.



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.

High modularity and flexibility

The graphical configuration of remote I/Os on CANopen in Unity Pro and the ready to use cabling system give a high capacity and easy adaptation to the machines needs with Automation Island and IP67 I/Os.



Productivity from the design to the maintenance

The productivity is mastered along the different steps of the project life cycle with UnityPro, Vijeo Designer, Powersuite, Unilink.



Motion can be so simple!

A set of standardized PLC Open functions blocks manages easily Altivar and Lexium on CANopen for the control of non synchronized axis.

Centralized display of diagnostic

With the Magelis XBT GT display unit, the operator visualizes the hardware and process diagnostic from the Modicon M340 and all the periphery on CANopen without programming in addition.



Remote maintenance

Remote access to this implementation is easy thanks to the embedded port TCP/IP and predefined Web pages in the controller.

Characteristics

Performance

- Controller: Premium
- I/Os: up to 200 I/Os
- Motor control (up to 14)
- Direct motor starter TeSys Model U
- Variable speed drives ATV 31/71
- Servo drives (Lexium 05/15)
- HMI: Push-buttons and light, graphic display
- Typical cycle time: 10-50 ms
- Safety: Preventa controller
- Options: Ethernet connection to upper level

Installation

- Machine type: stand alone machine or networked
- Cabling: CANopen
- Software: Unity Pro, PowerSuite, Unilink, Vijeo designer; high featured services to configure the devices with device emulation on the computer.
- Program design: Unity Pro; libraries and function blocks to ease programming and reuse of program modules.
- Easy to duplicate and to save your PLC application by using flash memory.

Constraint

- Installed in one or several cabinets to achieve higher IP level, ACM (IP55), ACP (IP66)

Cost

- A competitive ratio performance / cost

Size

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

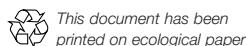


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A platform and a dedicated team at your service

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.