

Advanced Implementation Drive centric implementation

An innovative solution for drive centric application



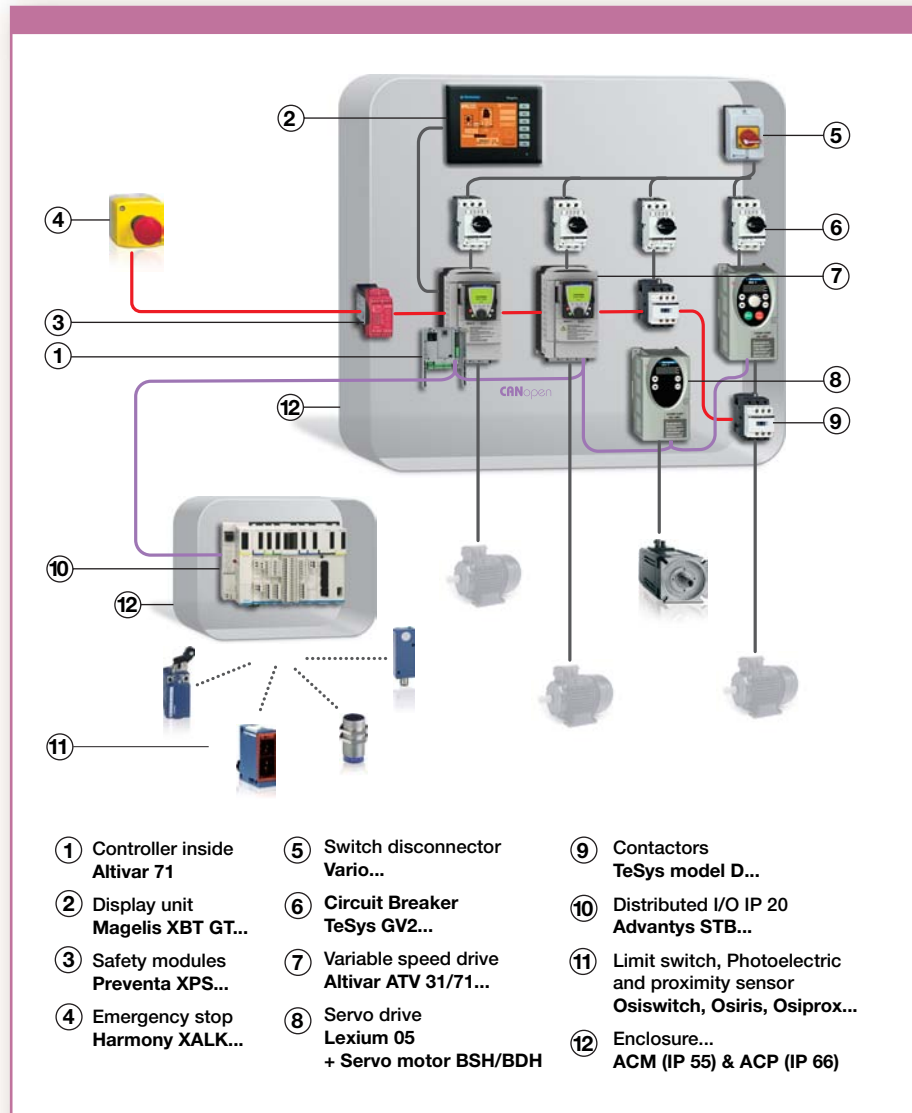
Typical applications

Industry

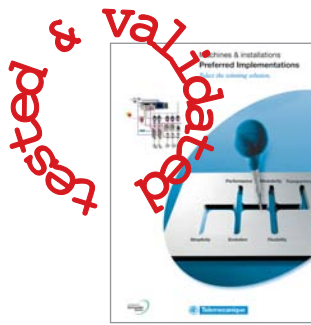
- Hoisting
(Tower crane)
- Other industries
(Car washing machines)

Building

- HVAC
(chiller, cooling tower...)



This implementation fits to compact or distributed and complex installations that requires motion or substitute servos with VVD. Pre configured services to manage drives and servo drives on CANopen ease the implementation of installation requiring performance and robustness. The field bus gives the flexibility and modularity to ease adaptations for variant machines. It combines a ATV 71 controller inside programmable controller, with Altivar 31/71 variable speed drives, Lexium 05 servo drives on CANopen and a Magelis XBT GT display unit with an Modbus 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. This architecture is related to special machine builder with high valuable know-how.



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.

Productivity from the design to the maintenance

With the tools provided for this implementation, CoDeSys, Vijeo designer, Powersuite, Advantys. The productivity is mastered along the different steps of the project life cycle.

Fast commissioning phase

With the operator screen in CoDeSys for Controller Inside card, the operator visualizes the defaults of the hardware configuration of the controller and process diagnostic fast.



Integration of other devices

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

it is easy to connect devices, like Lexium 05 or Altivar 31/71 to the controller inside, thanks to CANopen integration.

Remote maintenance

Remote access to this implementation is easy thanks to the option card TCP/IP with predefined Web pages.

Characteristics

Performance

- Controller: Controller Inside (ATV 71 CI)
- I/O: up to 100 I/Os
- CAN slaves: up to 13
- Motor Control: up to 7 Drives (ATV 31/71)
- Motion: up to 5 Lexium 05 + Servo motor BSH/BDH
- HMI: PBs + Text / Graphic HMI
- Typical cycle time: 30 - 70 ms
- Safety: Preventa module or controller
- Option: Ethernet connection to upper level

Installation

- Machine type: stand alone machine or networked
- Cabling: Hardwired (I/Os); motion on CANopen
- Software: CoDeSys, PowerSuite, Advantys, Vijeo designer; high featured services to configure the devices with device emulation on the computer.
- Program design: CoDeSys; libraries and function blocks to ease programming and reuse of program modules.
- High flexibility to structure and program the controller

Constraint

- Installed in a cabinet to achieve higher IP level, ACM (IP55), ACP (IP66)

Cost

- A competitive ratio performance / cost

Size

- Compact or large machine or equipment
- Network length: at 250kBit/s (default) the length in 250m, 100m at 500kBit/s

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.

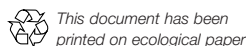


Schneider Electric Industries SAS

Head Office
89, bd Franklin Roosevelt
92506 Rueil-Malmaison Cedex
FRANCE

www.schneider-electric.com
www.telemecanique.com

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