

Fact Sheet

# VLT® PROFINET MCA 120



**Ordering number**

Standard 130B1135  
Coated 130B1235

## MRP

support for  
high availability



The VLT® PROFINET MCA 120 offers connectivity to PROFINET based networks via the PROFINET Protocol.

PROFINET was introduced in 2003 and is today a proven and complete industrial Ethernet network solution available for manufacturing automation. PROFINET is a member of a family of networks that implement the PROFINET protocol at its upper layers.

PROFINET encompasses a suite of messages and services for a variety of manufacturing automation applications, including control, configuration and information.

The option is able to handle a single connection with an Actual Packet Interval down to 2 ms in both directions, positioning it among the fastest performing PROFINET devices in the market.

**Other features**

Built-in web server for remote diagnosis and reading out of basic drive

parameters. An e-mail notificator can be configured for sending an e-mail message to one or several receivers, if certain warnings or alarms occur, or have cleared again.

The plug and play option can be installed in VLT® AutomationDrive, VLT® HVAC Drive, VLT® Refrigeration Drive and VLT® AQUA Drive.

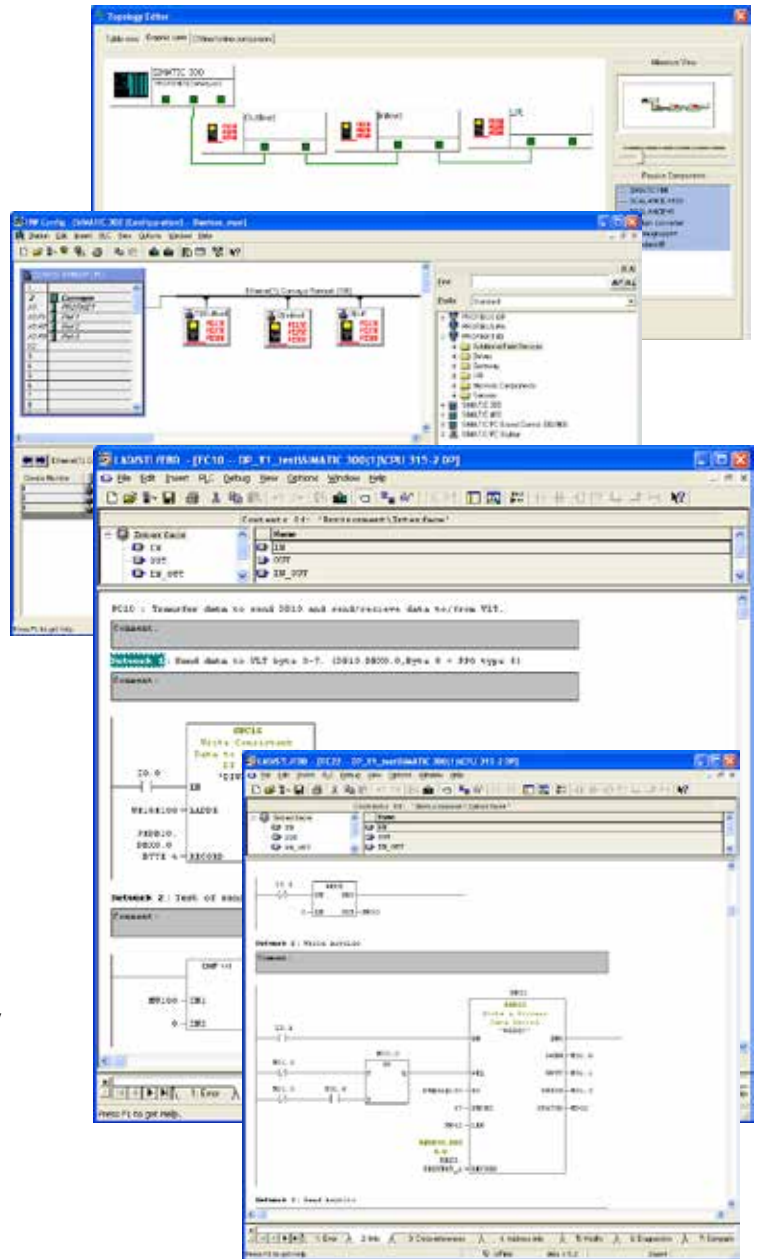
**Application protocols**

- PROFINET for controlling and parameter setting
- DCP (Discovery and Configuration Protocol) for configuring network related settings
- LLDP (Link Layer Discovery Protocol) for topology recognition and initial settings of communication parameters
- HTTP (Hypertext Transfer Protocol) for diagnosis via built-in web server
- SMTP (Simple Mail Transfer Protocol) for e-mail notification
- TCP/IP for easy access to Drive configuration data from VLT® Motion Control Tool MCT 10

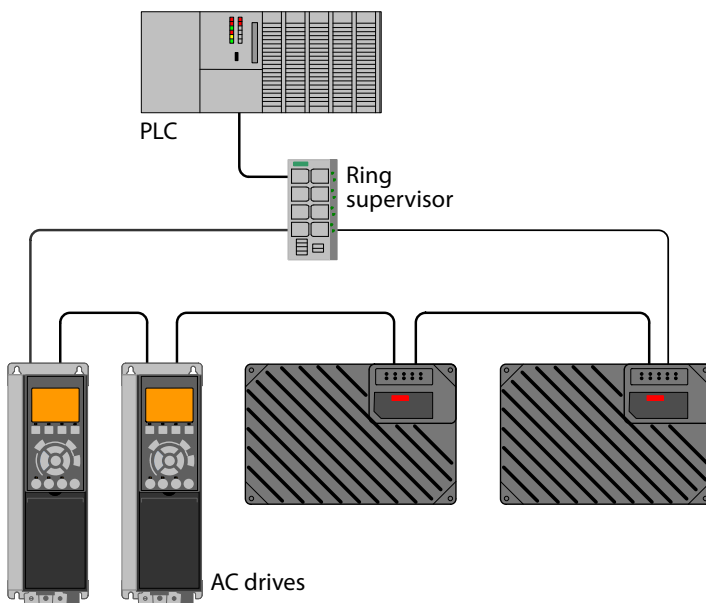
Feature	Benefit
Connectivity to PROFINET based networks	Connects to Siemens S7, PC7 PLC systems and to various SCADA system
Actual Packet Interval (API) down to 2 ms	High performance
Built-in web server	Remote diagnosis and reading out of basic drive parameters
E-mail notificator	Notifies if warnings or alarms occur
Two Ethernet ports with built-in switch	<ul style="list-style-type: none"> <li>• Simple cabling</li> <li>• No need for expensive switches or hubs</li> </ul>
Certification	Option tested at third party laboratory guarantees interoperability and observance of standards
Same option for all power sizes	Low learning curve and reuse of PLC program
MRP (Media Redundancy Protocol) ring topology	High availability
PROFIsafe	Reduced wiring, flexible configurations, easy and cost-effective system design

The VLT® PROFINET MCA 120 uses standard function calls and system features. This allows the user to build the PLC program on well-tried PLC functionality.

The VLT® PROFINET MCA120 supports the network topology view in the PLC programming tool.



### Media Redundancy Protocol (MRP) topology



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