



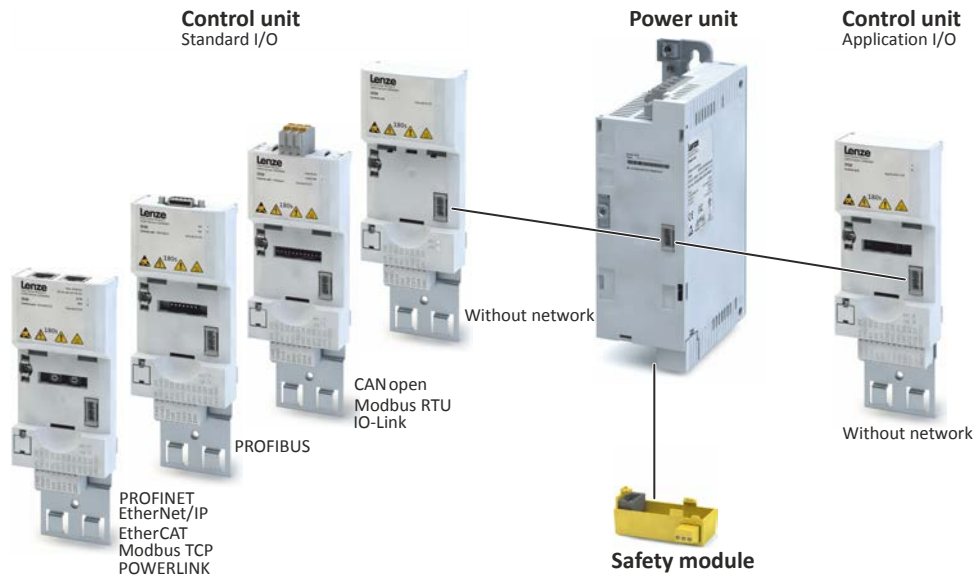
Product extensions

Overview

The inverters can easily be integrated into the machine. The scalable product extensions serve to flexibly match the required functions to your application.

The control unit with standard I/O can be extended with different networks.

The control unit with application I/O provides additional inputs and outputs (I/Os). A network component is not available.





POWERLINK

Ethernet POWERLINK is a common fieldbus for the connection of inverters to different control systems in plants.

General information			
Design		Optional Integrated in standard I/O	
DC supply of the control electronics and optional fieldbus		Internally via the inverter	Mains-dependent
		Optionally: External supply	Mains-independent 24 V DC at X3/24E...GND

Terminal description		POWERLINK	POWERLINK
Connection		X286	X287
Connection type		RJ45	
Max. cable cross-section	mm ²	-	-
Max. cable cross-section	AWG	-	-
Stripping length	mm	-	-
Stripping length	inch	-	-
Tightening torque	Nm	-	-
Tightening torque	lb-in	-	-
Required tool		-	

Technical data			
Communication profile		POWERLINK	
		AC Drive	
Bus terminating resistor		Not required	
integrated bus terminating resistor		No	
Network topology			
Without repeater		Tree, star and line	
With repeater		-	
Station			
Type		Adapter (controlled node, CN)	
Max. Number		240	
Address		Station name	
Max. Cable length	m	-	Not limited The length between the nodes is decisive.
Max. Cable length between two nodes	m	100	
Process data			
Transmit PDOs		4 words	Max. 16 bits (2 bytes) as a coherent PDO object
Receive PDOs		2 words	
Cycle time	ms	Multiple of 0.4 ms and 0.5 ms	
Other data		Additional TCP/IP channel	

Communication time			
Communication time depends on		Processing time in the inverter	Time between the start of a request and arrival of the response
		Telegram runtime (baud rate, telegram length)	
		Nesting depth of the network	
		Bus load	

Processing time of process data			
Update cycle	ms	1	In the inverter
Processing time	ms	0 ... 1	
Application task runtime of the technology application used (tolerance)	ms	1 ... x	

Other data			
Note		There are no interdependencies between parameter data and process data.	