

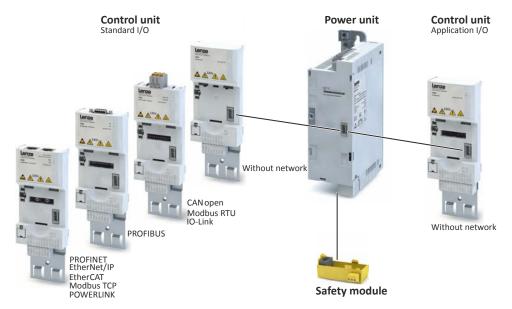
Product extensions

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.



Product extensions

Networks EtherCAT







EtherCAT

EtherCAT 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 X3/24EGND

Terminal description		EtherCAT	EtherCAT
Connection		X246	X247
Connection type		RJ	45
Max. cable cross-section	mm²	-	-
Max. cable cross-section	AWG	-	-
Stripping length	mm	-	-
Stripping length	inch	-	-
Tightening torque	Nm	-	-
Tightening torque	lb-in	-	-
Required tool			-

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Communication profile		EtherCAT	
		CANopen over EtherCAT (CoE)	
Bus terminating resistor	Ω	Not required	
integrated bus terminating resistor		No	
Network topology			
Without repeater		Line, switch	
With repeater		-	
Station			
Туре		EtherCAT slave	
Max. number		65535	In the entire network
Address			Adjustable via parameter
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		16 words	Max. 32 bits (4 bytes) as a coherent PDO
Receive PDOs		16 words	object
Cycle times	ms	Integer multiple of 1	

Communication time		
Communication time depends on	Processing time in the inverter	Time between the start of a request and
	Telegram runtime (baud rate, teleg length)	gram arrival of the response
	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.