

# Servo Drives 9400 HighLine



## Interfaces

### EtherCAT® communication module

Physically speaking, EtherCAT® is a ring system that uses a one-total-frame protocol, where the device manipulates the data during the cycle. It has two physical variants, the E-bus and Ethernet. E-bus is only suitable for short distances within a device; only the Ethernet version offers the benefits of an Ethernet system.



EtherCAT® communication module

Mode		Features	Slot	Product key
Communication module				
EtherCAT		<ul style="list-style-type: none"><li>• CANopen over EtherCAT (CoE)</li><li>• Distributed clock</li><li>• 2 RJ45 connections with LEDs for link and activity</li><li>• 2 LEDs for communication status display</li><li>• External voltage supply possible</li></ul>	MXI1 MXI2	E94AYCET

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### Standards and operating conditions

Product key			E94AYCET
Mode			EtherCAT
Communication module			
Degree of protection			IP20
EN 60529			
Vibration resistance			<p>Sinusoidal vibration Amplitude/Acceleration Acceleration resistant up to 0.7 g acc. to Germanischer Lloyd <math>10 \text{ Hz} \leq f \leq 57 \text{ Hz}</math>: <math>\pm 0.075 \text{ mm}</math> amplitude,</p>
Site altitude			
Amsl	H <sub>max</sub>	[m]	4000
Climatic conditions			
Storage (EN 60721-3-1)			1K3 (temperature: -25 °C ... +60 °C)
Transport (EN 60721-3-2)			2K3 (temperature: -25 °C ... +70 °C)
Operation (EN 60721-3-3)			3K3 (temperature: -10°C ... +55 °C)
Insulation voltage to reference earth/PE	U <sub>AC</sub>	[V]	50.0

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#### Rated data

<b>Product key</b>			E94AYCET
<b>Communication</b>			
Medium			CAT5e S/FTP according to ISO/IEC11801 (2002)
Communication profile			CoE (CANopen over EtherCAT) PROFIsafe in combination with SM302
<b>Baud rate</b>			
	b	[MBit/s]	100
<b>Node</b>			Slave
<b>Network topology</b>			Line (internal ring)
<b>Number of logical process data channels</b>			1
<b>Process data words (PCD)</b>			
16 Bit			1 ... 32
<b>Number of bus nodes</b>			Max. 65535
<b>Max. cable length</b>			
between two nodes	$l_{max}$	[m]	100
<b>Rated voltage</b>			
	$U_{N, DC}$	[V]	24.0

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