

Servo Drives 9400 HighLine

Interfaces




Communication module: CANopen

The Servo Drives 9400 HighLine and the regenerative power supply modules have a CANopen interface on board as a standard feature. It enables the axis modules to communicate with each other and with other system bus components (e.g. I/O systems or HMIs). If a second CANopen interface is necessary for system networking, the CANopen communication module can be used for this purpose. CANopen is a communication protocol based on CAN physics. Its specifications are determined by the CiA user group (CAN in Automation). Compatibility with the Lenze system bus (CAN) can be established by means of configuration.



Communication module: AS-Interface

4.3

Mode		Features	Slot	Product key
Communication module				
CANopen		<ul style="list-style-type: none"> CANopen profile DS301, V4.02 Lenze system bus Automatic baud rate detection 2 LEDs for communication status display DIP switch for selecting baud rate and address Sub-D connection 	MX11 MX12	E94AYCCA

Standards and operating conditions

Product key				E94AYCCA
Mode				CANopen
Degree of protection				IP20
EN 60529				
Vibration resistance				Sinusoidal vibration Amplitude/Acceleration Acceleration resistant up to 0.7 g acc. to Germanischer Lloyd 5 Hz ≤ f ≤ 13.2 Hz ± 1 mm amplitude, 13.2 Hz ≤ f ≤ 100 Hz: 10 Hz ≤ f ≤ 57 Hz: ±0.075 mm amplitude,
Site altitude				
Amsl	H _{max}	[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 _{AC}	[V]		50.0

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Rated data

Product key			E94AYCCA
Communication			
Medium			DIN ISO 11898
Communication profile			CANopen, DS301 V4.02 Lenze system bus
Baud rate			
	b	[kBit/s]	10 20 50 125 250 500 800 1000
Node			
			Slave Multi-master
Network topology			
			Line with terminating resistors (120 ohm) at both ends
Number of logical process data channels			
			4 (each with 1 - 8 bytes)
Number of logic parameter data channels			
			5
Number of bus nodes			
			127 Without repeaters: 110
Max. cable length			
between two nodes	l_{max}	[m]	100
per bus segment ¹⁾	l_{max}	[m]	17 for 1000 kbps 40 for 800 kbps 110 for 500 kbps 290 for 250 kbps 630 for 125 kbps 1500 for 50 kbps 3900 for 20 kbps 8000 for 10 kbps
Rated voltage			
	$U_{N,DC}$	[V]	24.0

¹⁾ Max. bus cable lengths also depend on the number of nodes and the cable cross-section used.