



EP7211-0034 | Servomotor module with OCT, 50 V DC, 4.5 A (I_{rms})

The EP7211-0034 servomotor EtherCAT Box with integrated One Cable Technology (OCT) offers high servo performance in a very compact design for AM8100 series motors with up to 4.5 A (I_{rms}). The One Cable Technology combines motor cable and absolute feedback system in a single cable. The integrated electronic identification plate of the AM81xx motors can be read in automatically by the servo box to configure the motor parameters. In this way, wiring and commissioning requirements are simplified.

The high-performance control technology supports fast and highly dynamic positioning tasks, while numerous monitoring functions offer maximum operational reliability. EtherCAT as a high-performance system communication enables ideal interfacing with PC-based control technology. LEDs indicate status, warning and error messages as well as possibly active limitations. Two integrated digital inputs enable the connection of limit switches.

Technical data	EP7211-0034
Technology	compact Drive Technology
Load type	permanent magnet-excited three-phase synchronous motor
Number of channels	1
Number of outputs	1 x servomotor, 1 x motor brake
Number of inputs	2 x end position, 1 x feedback
Connection method	direct motor connection with OCT
Supply voltage power	8...50 V DC (external)
Output current (rms)	4.5 A
Peak current (rms)	max. 9.0 A for 1 s
Frequency range	0...599 Hz
PWM clock frequency	16 kHz
Current controller frequency	32 kHz
Rated speed controller frequency	16 kHz
Output voltage motor brake	24 V DC
Output current motor brake	max. 0.5 A
Current consumption from Us	120 mA
Distributed clocks	yes
Special features	compact and system-integrated, absolute feedback, One Cable Technology (OCT), plug and play
Electrical isolation	500 V
Weight	approx. 440 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 65/66/67 (conforms to EN 60529)/variable
Approvals	CE, UL in preparation

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2030-xxxx-xxxx, ZK2031-xxxx-xxxx	Cables for 7/8" power supply
AM811x	servomotor 0.20...0.52 Nm for servo I/Os (EL72xx, EP72xx)
AM812x	servomotor 0.50...0.80 Nm for servo I/Os (EL72xx, EP72xx)
AM813x	servomotor 1.35...2.37 Nm for servo I/Os (EL72xx, EP72xx)
AM814x	servomotor 2.40 Nm for servo I/Os (EL72xx, EP72xx)
ZK2000-5xxx/71xx-xxxx	Sensor cable 5-wire unshielded/shielded
ZK4701-04x1-2xxx	supply cables for compact Drive Technology

