



EL7201-0010 | Servomotor terminal for OCT, 50 V DC, 2.8 A_{RMS}

The EL7201-0010 servomotor EtherCAT Terminal with integrated absolute value interface offers high servo performance in a very compact design. The fast control technology, based on field-oriented current and PI speed control, supports fast and highly dynamic positioning tasks. The monitoring of numerous parameters, such as overvoltage and undervoltage, overcurrent, terminal temperature or motor load via the calculation of a I^2T model, offers maximum operational reliability. EtherCAT, as a high-performance system communication, and CAN-over-EtherCAT (CoE), as the application layer, enable ideal interfacing with PC-based control technology. The latest power semiconductors guarantee minimum power loss and enable feedback into the DC-Link when braking. 16 LEDs indicate status, warning and error messages as well as possibly active limitations.

With the One Cable Technology (OCT) the encoder cable is omitted by transmitting the signals of the encoder digitally via the existing motor cable. The option to read the electronic identification plates of suitable motors from the AM81xx series enables a plug-and-play solution for maximum convenience during commissioning.

Technical data	EL7201-0010
Number of channels	1 servomotor, absolute feedback, motor brake, 2 digital inputs
Connection method	direct motor connection
Load type	permanent-magnet synchronous motors
Nominal voltage	8...50 V DC
Output current I_N	2.8 A (rms)
Performance increase	Yes, through ZB8610 fan cartridge
output current with ZB8610	max. 4.5 A _{RMS} (overload- and short-circuit-proof)
Peak current I_N	5.7 A (rms) 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 (+6 %/-10 %)
Output current motor brake	max. 0.5 A
Current consumption power contacts	typ. 50 mA + holding current motor brake
Current consumption E-bus	120 mA
Special features	compact (only 12 mm wide), system-integrated, absolute feedback, One Cable Technology (OCT), plug-and-play
Weight	approx. 60 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
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 20/see documentation
Approvals	CE, UL

Accessories	
EL9576	brake chopper terminal, 72 V, 155 µF
ZK47x4-04xx, ZK4000-xxxx	Supply cables for Compact Drive Technology
AM811x	Synchronous servomotor for servo terminal, 0.20 – 0.52 Nm
AM812x	Synchronous servomotor for servo terminal, 0.5 – 0.8 Nm
AM813x	Synchronous servomotor for servo terminal, 1.35 Nm
ZB8610	fan cartridge for EtherCAT and Bus Terminals
ZB85xx	Shield busbar with mounting rail holder, shield busbar clamps