



EL7201 | Servomotor terminal for resolver, 50 V DC, 2.8 A RMS

The EL7201 servomotor EtherCAT Terminal, with integrated resolver 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.

Technical data	EL7201
Number of channels	1 servomotor, resolver, motor brake
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	typ. 120 mA
Special features	compact (only 12 mm wide), system-integrated
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 μ F
ZB8610	fan cartridge for EtherCAT and Bus Terminals
ZB85xx	Shield busbar with mounting rail holder, shield busbar clamps
AM812x	Synchronous servomotor for servo terminal, 0.5 – 0.8 Nm
AM813x	Synchronous servomotor for servo terminal, 1.35 Nm
AG2250	Planetary gear units for compact Drive Technology
ZK47x4-04xx, ZK4000-xxxx	Supply cables for Compact Drive Technology

Related products	
EL7211	servomotor EtherCAT Terminal for resolver, 50 V DC, 4.5 A _{RMS}