



EL7342 | 2-channel DC motor output stage 50 V DC, 3.5 A

The EL7342 EtherCAT Terminal enables direct operation of two DC motors. It is galvanically isolated from the E-bus. The speed or position is specified by the automation device via a 16 bit value. Connection of an incremental encoder enables a simple servo axis to be realised. The output stage is protected against overload and short-circuit. The EtherCAT Terminal has two channels that indicate their signal state via light emitting diodes. The LEDs enable quick local diagnosis.

Technical data	EL7342 ES7342
Technology	direct motor connection
Number of outputs	2
Number of channels	2 DC motors, 2 digital inputs, encoder input
Rated load voltage	8...50 V DC
Load type	DC brush motors, inductive
Nominal voltage	8...50 V DC
Max. output current	2 x 3.5 A
Performance increase	Yes, through ZB8610 fan cartridge
output current with ZB8610	max. 6.5 A (overload- and short-circuit-proof)
PWM clock frequency	32 kHz with 180° phase shift each
Duty factor	0...100 % (voltage-controlled)
Resolution	max. 10 bits current, 16 bits speed
Electrical isolation	500 V (E-bus/field potential)
Current consumption power contacts	typ. 70 mA
Bit width in the process image	2 x 32 bit status, 2 x 32 bit control, 2 x 32 bit input, 2 x 32 bit output
Current consumption E-bus	typ. 140 mA
Distributed clocks	yes
Control resolution	max. 10 bits current, 16 bits speed
Encoder input signal	5...24 V DC, 5 mA, single-ended
Pulse frequency	max. 400,000 increments/s (with 4-fold evaluation)
Current consumption sensor supply	typ. 20 mA
Configuration	adaptation and optimisation of the respective motor via the controller
Special features	travel distance control, encoder input
Weight	approx. 90 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
Pluggable wiring	for all ESxxxx terminals
Approvals	CE, UL

Accessories	
EL9576	brake chopper terminal, 72 V, 155 µF
ZB8610	fan cartridge for EtherCAT and Bus Terminals

Related products	
EL7332	2-channel DC motor output stage 24 V DC, 1 A, EtherCAT Terminal IP 20
EP7342	EtherCAT Box, industrial housing, 2-channel DC motor output stage 50 V DC, 3.5 A, IP 67
KL2532	2-channel DC motor output stage 24 V DC, 1 A, Bus Terminal, IP 20
KL2552	2-channel DC motor output stage 50 V DC, 5 A, Bus Terminal, IP 20