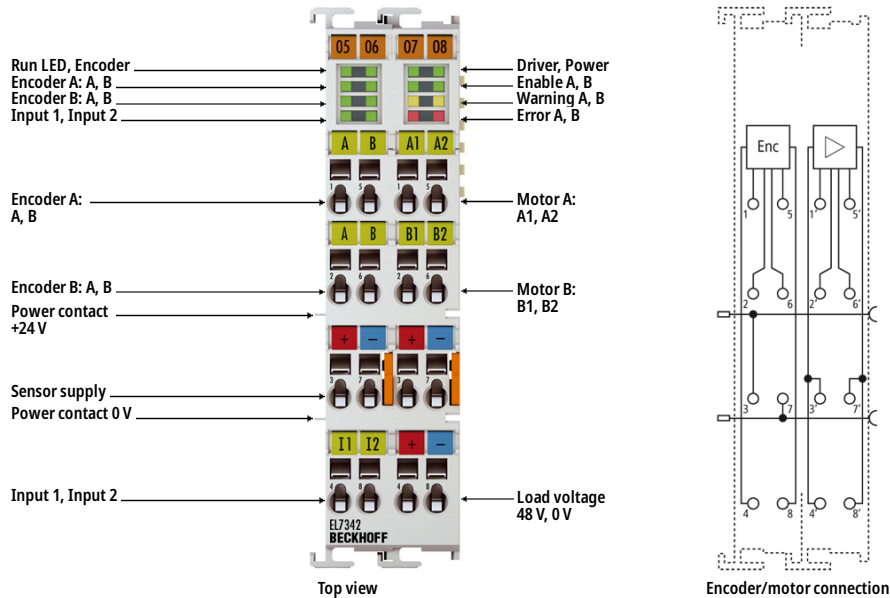
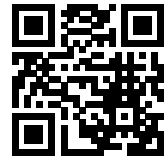


# EL7342 | EtherCAT Terminal, 2-channel motion interface, DC motor, 48 V DC, 3.5 A



**i Product status:** Regular delivery

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 realized. The output stage is protected against overload and short-circuit, the common thermal overload warning applies to both output stages together. The EtherCAT Terminal has two channels that indicate their signal state via light emitting diodes. The LEDs enable quick local diagnosis.

## Product information

### Technical data

Technical data	EL7342, ES7342
Technology	compact drive technology
Connection method	direct motor connection
Number of inputs	1 x end position, 1 x encoder per channel
Load type	DC brush motor, inductive
Number of channels	2
Number of outputs	1 x DC motor per channel
Supply voltage electronics	24 V DC (via power contacts)
Supply voltage power	8...48 V DC (external)
Output current	max. 3.5 A per channel

Performance increase	yes, through ZB8610 fan cartridge
Output current with ZB8610	max. 6.5 A per channel
PWM clock frequency	32 kHz with 180° phase shift each
Duty factor	0...100 % (voltage-controlled)
Resolution	max. 10 bit current, 16 bit speed
Encoder input signal	5...24 V DC, typ. 5 mA, single-ended
Input frequency	max. 400,000 increments/s (with 4-fold evaluation)
Current consumption power contacts	typ. 70 mA
Current consumption E-bus	typ. 140 mA
Distributed clocks	yes
Special features	travel distance control, encoder
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 90 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
Protect. rating/installation pos.	IP20/see documentation
Pluggable wiring	for all ESxxxx terminals
Approvals/markings	CE, UL

Housing data	EL-24-2x8pin	ES-24-2x8pin
Design form	compact terminal housing with signal LEDs	terminal housing with pluggable wiring level
Material	polycarbonate	
Dimensions (W x H x D)	24 mm x 100 mm x 68 mm	
Installation	on 35 mm DIN rail, conforming to EN 60715 with lock	
Side by side mounting by means of	double slot and key connection	
Marking	labeling of the BZxxx series	
Wiring	solid conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver	
Connection cross-section	s*: 0.08...2.5 mm <sup>2</sup> , st*: 0.08...2.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>	s*: 0.08...1.5 mm <sup>2</sup> , st*: 0.08...1.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16	s*: AWG 28...16, st*: AWG 28...16, f*: AWG 26...16
Stripping length	8...9 mm	9...10 mm
Current load power contacts	I <sub>max</sub> : 10 A	

\*s: solid wire; st: stranded wire; f: with ferrule

## Ordering information

Ordering information	
EL7342	EtherCAT Terminal, 2-channel motion interface, DC motor, 48 V DC, 3.5 A
ES7342	EtherCAT Terminal, 2-channel motion interface, DC motor, 48 V DC, 3.5 A, pluggable wiring

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