



## ER7342-0002 | 2-channel DC motor output stage 50 V DC, 3.5 A

The ER7342 EtherCAT Box enables direct operation of two DC motors. The speed or position is specified by the automation device via a 16 bit value. By connection of an incremental encoder (24 V DC, single-ended), a simple servo axis can be realised. The output stage is protected against overload and short-circuit. The EtherCAT Box has two channels that indicate their signal state via light emitting diodes. The LEDs enable quick local diagnosis.

The EtherCAT Box modules with zinc die-cast housing are ready for use in harsh industrial and process environments. With the fully sealed design and metal surfaces the ER series is ideal for applications requiring enhanced load capacity and protection against weld spatter, for example.

Technical data	EP7342-0002
Number of outputs	2
Connection method	M12, screw type
Rated load voltage	8...50 V DC
Load type	DC brush motors, inductive
Nominal voltage	8...50 V DC
Distributed clocks	yes
Protocol	EtherCAT
Output current	max. 2 x 3.5 A (short-circuit-proof, common thermal overload warning for both output stages) per channel
PWM clock frequency	32 kHz with 180° phase shift each
Duty factor	0...100 % (voltage-controlled)
Resolution	max. 10 bits current, 16 bits speed
Power supply connection	feed: 1 x M8 male socket, 4-pin; downstream connection: 1 x M8 female socket, 4-pin
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
Electrical isolation	500 V
Configuration	adaptation and optimisation of the respective motor via the controller
Current consumption sensor supply	20 mA (see documentation)
Current consumption from Us	120 mA
Special features	travel distance control, encoder input
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

Related products	
<b>EP7342</b>	EtherCAT Box, industrial housing, 2-channel DC motor output stage 50 V DC, 3.5 A, EtherCAT Box, IP 67
<b>EL7332</b>	2-channel DC motor output stage 24 V DC, 1 A, EtherCAT Terminal IP 20
<b>EL7342</b>	2-channel DC motor output stage 50 V DC, 3.5 A, EtherCAT Terminal, IP 20
<b>KL2532</b>	2-channel DC motor output stage 24 V DC, 1 A, Bus Terminal, IP 20
<b>KL2552</b>	2-channel DC motor output stage 50 V DC, 5 A, Bus Terminal, IP 20