



EP7342-0002 | 2-channel DC motor output stage 50 V DC, 3.5 A

The EP7342 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.

Technical data	EP7342-0002
Number of outputs	2
Connection method	M12, screw type
Rated load voltage	8...50 V DC
Load type	DC brush motor, inductive
Nominal voltage	8...50 V DC
Distributed clocks	yes
Protocol	EtherCAT
Output current	per channel max. 3.5 A (short-circuit proof, common thermal overload warning for both output stages)
PWM clock frequency	32 kHz with 180° phase shift each
Duty factor	0...100 % (voltage-controlled)
Resolution	max. 10 bit current, 16 bit 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 from Us	120 mA
Special features	travel distance control, encoder input
Weight	approx. 165 g
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/Markings	CE, ATEX
Ex-Marking	II 3 G Ex nA IIC T4 Gc

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2020-3xxx-xxxx	Cables for M8 power supply

Related products	
EL7332	DC motor EtherCAT Terminal, 24 V DC, $I_{max} = 1.0$ A, 2-channel
EL7342	DC motor EtherCAT Terminal, 50 V DC, $I_{max} = 3.5$ A, 2-channel
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