



EPP7342-0002 | 2-channel DC motor output stage 50 V DC, 3.5 A

The EPP7342 EtherCAT P 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 P Box has two channels that indicate their signal state via light emitting diodes. The LEDs enable quick local diagnosis.

Technical data	EPP7342-0002
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
Bus interface	2 x M8 socket, shielded, screw type, EtherCAT-P-coded
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 bits current, 16 bits speed
Power supply connection	not necessary
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	typ. 100 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	CE, UL in preparation

Accessories	
ZK700x-010x-0xxx	Cables for EtherCAT P: Ultra-fast Communication and Power in One Cable
ZK2020-3xxx-xxxx	Cables for M8 power supply