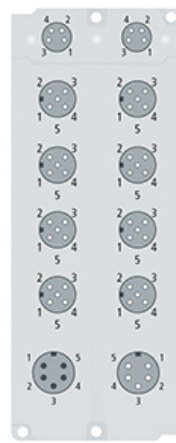


EP7047-9034



I/O connection

Connector assignment

## i EP7047-9032 | Stepper motor box with incremental encoder, STO and vector control, 50 V DC, 5 A

The EP7047-9032 EtherCAT Box is intended for stepper motors in the medium performance range. The PWM output stages cover a wide range of voltages and currents. Together with two inputs for limit switches, they are integrated in the EtherCAT Box. The EP7047-9032 can be adjusted to the individual motor and application by changing just a few parameters. The module is ideal for closed-loop control of the AS2000 stepper motors, which are equipped with a torsion-proof, integrated encoder (1024 inc/rev). Either a 5 V or a 24 V version can be used as the single-ended encoder. The EP7047-9032 enables the implementation of an STO (Safe Torque Off) safety function corresponding to a Cat. 3 PL d safety level according to DIN EN ISO 13849-1:2015.

Technical data	EP7047-9032
Number of outputs	1 x stepper motor, 1 x brake
Number of inputs	2 x end position, 1 x feedback, 1 x STO
Connection method	direct motor connection + feedback
Load type	2-phase stepper motor (uni-/bipolar)
Nominal voltage	24 V DC
Supply voltage power	8...50 V DC (external)
Distributed clocks	yes
Protocol	EtherCAT
Output current	5 A ( $I_{rms}$ )
Step frequency	configurable up to 16,000 full steps/s
Step pattern	64-fold micro stepping
Current controller frequency	approx. 30 kHz
Diagnostics LED	error phase A and B, loss of step/stagnation, power, enable
Resolution	approx. 5000 positions in typ. applications (per revolution)
Electrical isolation	500 V
Current consumption from Us	120 mA
Special features	travel distance control, encoder input, vector control, STO
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, UL in preparation, TÜV SÜD (certification in preparation)

Accessories	
ZK1090-3xxx-xxxx	Cables for EtherCAT signal in- and -output
ZK2030-xxxx-xxxx, ZK2031-xxxx-xxxx	Cables for 7/8" power supply
ZK2000-5xxx/71xx-xxxx	Sensor cable 5-wire unshielded/shielded
ZK4701-04x1-2xxx	supply cables for compact Drive Technology
Cables, gears and couplings	accessories for AS2000 stepper motors
Cables and gears	prefabricated connecting cables in IP 20 and IP 67 protection for AS10xx stepper motors

**Related products**

**EP7211-9034**

EtherCAT Box, industrial housing, servomotor module with OCT and STO, 50 V DC,  $I_{rms} = 4.5$  A



**Product announcement**

estimated market release 2nd quarter 2019