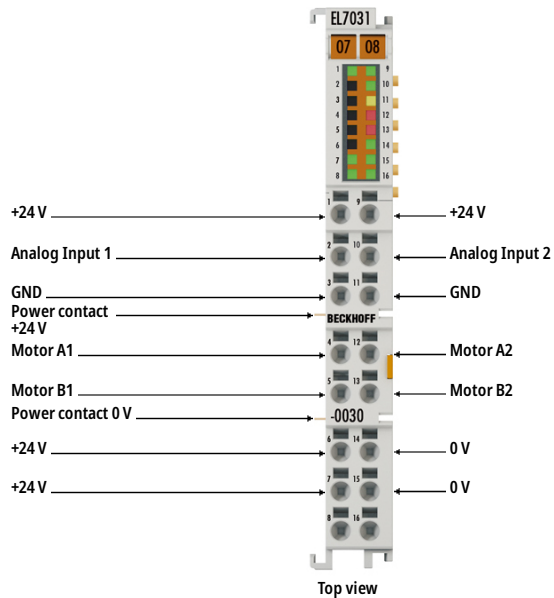
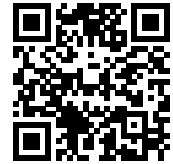


EL7031-0030 | EtherCAT Terminal, 1-channel motion interface, stepper motor, 24 V DC, 2.8 A



i Product status: Regular delivery

The EL7031-0030 EtherCAT Terminal is intended for the direct connection of stepper Motors in the low power range up to 2.8 A. The compact stepper motor output stage is accommodated in the EtherCAT Terminal together with two analog inputs (0...10 V/12 bit). Through parameterization, the EL7031-0030 can be adjusted to the motor and the application requirements. 64-fold micro-stepping ensures particularly quiet and precise motor operation.

In combination with a corresponding stepper motor, the EL7031-0030 represents a cost-effective compact drive solution.

Product information

Technical data

Technical data	EL7031-0030
Technology	compact drive technology
Connection method	direct motor connection
Number of inputs	2 x analog input (0...10 V/12 bit)
Load type	2-phase stepper motor (uni-/bipolar)
Number of channels	1
Number of outputs	1 x stepper motor
Supply voltage electronics	24 V DC (via power contacts)
Output current	2.8 A

Step frequency	configurable up to 8000 full steps/s
Step pattern	64-fold micro stepping
Current controller frequency	approx. 25 kHz
Resolution	approx. 5000 positions in typ. applications (per revolution)
Current consumption power contacts	typ. 30 mA + motor current
Current consumption E-bus	typ. 120 mA
Distributed clocks	yes
Special features	travel distance control, 2 analog inputs
Electrical isolation	500 V (E-bus/field potential)
Relative humidity	95 %, no condensation
Weight	approx. 50 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
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	-
Approvals/markings	CE, UL

Housing data	EL-12-16pin
Design form	HD (High Density) housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	12 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 conductors (e): direct plug-in technique; fine-stranded conductors (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...1.5 mm ² , st*: 0.25...1.5 mm ² , f*: 0.14...0.75 mm ²
Connection cross-section AWG	s*: AWG 28...16, st*: AWG 22...16, f*: AWG 26...19
Stripping length	8...9 mm
Current load power contacts	I _{max} : 10 A

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