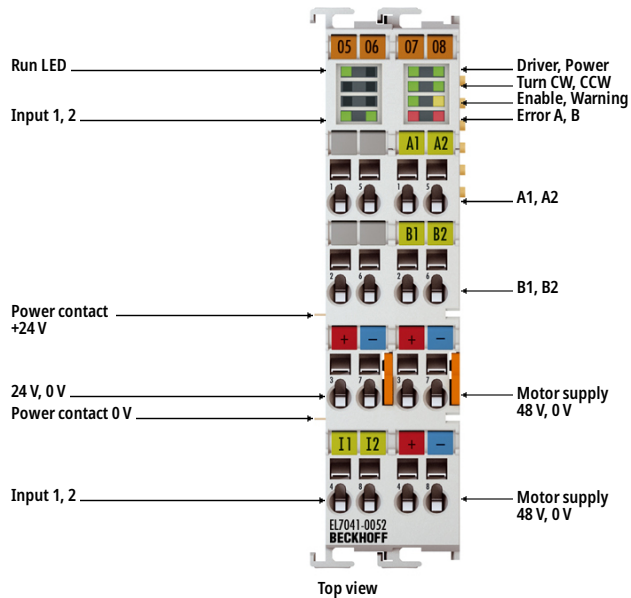
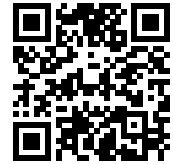


# EL7041-0052 | EtherCAT Terminal, 1-channel motion interface, stepper motor, 48 V DC, 5 A



**i Product status:** Regular delivery

The EL7041-0052 EtherCAT Terminal is intended for the direct connection of stepper motors in the mid power range up to 5 A and a voltage range from 8...48 V. The compact stepper motor output stage is accommodated in the EtherCAT Terminal together with two digital inputs for limit switches. Through parameterization, the EL7041-0052 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 EL7041-0052 represents a cost-effective compact drive solution.

## Product information

### Technical data

Technical data	EL7041-0052
Technology	compact drive technology
Connection method	direct motor connection
Number of inputs	2 x end position
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)
Supply voltage power	8...48 V DC (external)

Output current	max. 5.0 A
Step frequency	configurable up to 8000 full steps/s
Step pattern	64-fold micro stepping
Current controller frequency	approx. 30 kHz
Resolution	approx. 5000 positions in typ. applications (per revolution)
Current consumption power contacts	typ. 50 mA
Current consumption E-bus	typ. 140 mA
Distributed clocks	yes
Special features	travel distance control
Electrical isolation	500 V (E-bus/field potential)
Relative humidity	95 %, no condensation
Weight	approx. 90 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
Approvals/markings	CE

<b>Housing data</b>	<b>EL-24-2x8pin</b>
Design form	compact terminal housing with signal LEDs
Material	polycarbonate
Dimensions (W x H x D)	24 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 conductor (e), flexible conductor (f) and ferrule (a): spring actuation by screwdriver
Connection cross-section	s*: 0.08...2.5 mm <sup>2</sup> , st*: 0.08...2.5 mm <sup>2</sup> , f*: 0.14...1.5 mm <sup>2</sup>
Connection cross-section AWG	s*: AWG 28...14, st*: AWG 28...14, f*: AWG 26...16
Stripping length	8...9 mm
Current load power contacts	I <sub>max</sub> : 10 A

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