



EJ7031 | Stepper motor module 24 V DC, 1.5 A

The EJ7031 stepper motor output stage is intended for the direct connection of different stepper motors up to 1.5 A. The slimline PWM output stages for two motor coils are located in the EtherCAT plug-in module together with two inputs for limit switches. The EJ7031 can be adjusted to the motor and the application by changing just a few parameters. 64-fold micro-stepping ensures particularly quiet and precise motor operation.

Technical data	EJ7031
Technology	Compact Drive Technology
Load type	stepper motors (uni- or bipolar)
Number of channels	1 stepper motor, 2 digital inputs
Number of outputs	1 stepper motor, 2 phases
Number of inputs	2
Connection method	direct motor connection
Supply voltage electronics	24 V DC (via distribution board)
Supply voltage power	24 V DC (via distribution board)
Output current	1.5 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 E-bus	typ. 140 mA
Distributed clocks	yes
Special features	travel distance control
Electrical isolation	500 V (E-bus/field potential)
Weight	approx. 50 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
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 20/see documentation
Approvals	CE, UL

Accessories	
AS2022-0Hy0	stepper motor, 50 V DC, 1.5 Nm standstill torque, 5.6 A standstill current
AS2023-0Jy0	stepper motor, 50 V DC, 2.3 Nm standstill torque, 6.4 A standstill current
AS2042-1Hy0	stepper motor, 50 V DC, 6.4 Nm standstill torque, 5.6 A standstill current
Cables, gears and couplings	accessories for AS2000 stepper motors