



Product Info ECMD288

2-Phasen Leistungstreiber

- suitable for Step Motor Flange □ 56.4, 60, 86 mm
- e.g. HECM264 ... 269, SECM264 ... 2913

- automatic motor set up at power

- automatic operating parameter setup
 - o High dynamic in the upper speed range
 - o High torque during acceleration
 - o Quiet at stand still due to StandBy Mode

- 24 ... 80 Volt, 1.5 ... 8 Ampere

- Steps / Revolution:
 - ideal for all common lead screw pitches (x0x)
 - 200, 400, 500, 1000, 2000, 2500, 5000 und 10000
 - Optional (x2x): 200, 400, 800, 1600, 3200, 6400

- high step accuracy and constant torque step by step

- protected against over-current, over-temperature over-voltage and low voltage

- automatic current reduction at stand still

- compact metal housing

- Inputs: (opto isolator)
Puls, Direction, IN1 [Off, Reset, Gate]
Wide range input 3,5...24V, Step frequency up to 250 kHz

- Outputs: (opto isolator)
READY

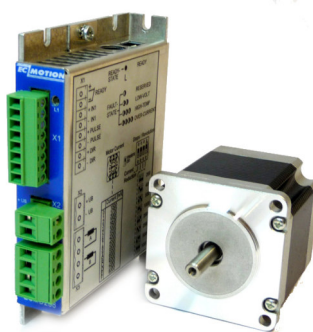
- high quality setup and connector elements
- all connections with detachable connectors
- totally silent and low resonance run
- LEDs for extensive diagnostics
- high step accuracy at every step
- active ballast circuit protects from over voltage

- Size: L:W:H 112 x 20 x 79 mm (without Heat Sink)

Variants / Order code ECMD288.xxx

- | | | |
|------|------|--|
| .x00 | 0/1: | without Heat Sink / with Heat Sink.00x |
| | 0/1: | Wall mount / with DIN railmountingclip |
| .x2x | | optional other Step Resolution |

Step Motor Technology new defined



This power drive sets new standards for the digital control of stepping motors.

Utilizing a state-of-the-art digital signal processor (DSP) made it possible to develop new procedures and control technologies.

The result is a low cost and very compact power drive especially efficient in highly dynamic applications. The robust drive is suitable for rough industrial environments.

Automatic Controller Setup: At power on, the drive electronically analyzes the motor. Next the operating parameters are automatically tuned to achieve optimal dynamic and smooth run drive performance. Consequently the power drive adjusts itself to the respective motor. Specific power drive know how is therefore not required.

Boost and Current Reduction: A variable boost function is enabled depending on the actual acceleration rate, i.e. an additional current offset is added to the set current value. With this, higher acceleration rates are possible. The current reduction reduces the motor current at stand still to 60% of the set current value.

Dynanic Operating Parameter Adjustment: Several conditions are continuously monitored during operation and the operating parameters are automatically adjusted. As a result the constant motor torque range stretches and dynamic positioning moves are also possible in the higher speed range.

With lower speeds down to stand still the power drive gradually switches to the stand by mode. The motor is absolutely quiet and this with full torque. A big advantage for office and lab environments. The power drive design is fully digital and the phase current is measured directly in the motor windings. So this results in optimal operating performance such as low resonance run, high step angle accuracy and high and constant torque from step to step.