



Product Info ECMD298

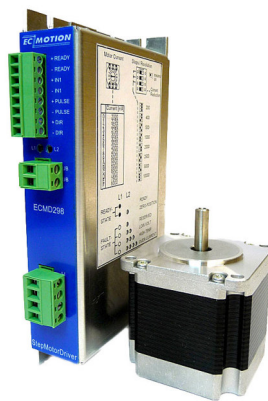
2-Phasen Leistungstreiber

- suitable for Step Motor Flange □ 56.4, 60, 86 mm
e.g. HECM264 ... 269, SECM264 ... 2913
- Automatic motor set up at power
- 24 ... 90 [max. 130] Volt, 4 ... 10Amps
- 200 up to 10000 Steps/Revolution
- Wall mounting, DIN-Rail mounting
- high step accuracy and constant torque step by step
- Protection against overcurrent, overtemperature, Overvoltage, undervoltage.
- extensive status display via LEDs L1 + L2
- automatic current reduction at standstill
- compact metal housing
- **Inputs:** (Optically isolated)
PULSE, DIRECTION, IN1 [OFF, RESET, GATE]
Wide range signal input voltage (3.5...24)Vdc
Step frequency up to 150 kHz
- **Outputs:** (Optically isolated)
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
- automatic fan
- Absolute low noise and low resonance run
- High and constant torque from step to step
- High step angle accuracy from step to step
- Dimensions : H:W:D 157 x 29 x 80 mm

Variants / Order code ECMD298.xxx

- .x00 0/1: without Heat Sink / with Heat Sink
- .00x 0/1: wall mount / with DIN rail mounting clip

Step Motor Technology new defined



The 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 operating parameters are automatically tuned to achieve optimal dynamic and smooth run drive performance. Consequently the power drive adjusts itself to the respective motor.

Boost and Current Reduction: A variable boost function is enabled depending on the actual acceleration rate, i.e. the motor current will be increased additionally. Higher acceleration rates are possible. The current reduction reduces the motor current at stand still to 60% of the set current value.

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

StandBy Mode: 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.

Fan Control: According to the implemented fan the installation position is not critical

Active Ballast: This circuit decreases over voltages when motor is in deceleration state. So its possible of using simple standard power supplies.

Digital Phase Current Controller: The power drive design is fully digital and the phase current is measured directly in the motor wirings. The strict focus was here to achieve optimal operating performance such as low resonance run, high step angle accuracy and high and constant torque from step to step.