



Product info ECMD298

- 2-Phase Stepper Motor Power Drive
- Compact metal housing
- 24...90 [max. 130] Volt, 2,0...8Amps
- 200 to 10000 Steps/Revolution
- Automatic motor set-up at power on
- Stand By Mode eliminates noise at standstill
- Automatic operating parameter adjustment delivers high torque at high speeds

- **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

- All connectors removable
- Only one power supply voltage required
- LEDs L1+L2 for detailed device status information

- Protected against over current, over temperature, and low voltage
- Active ballast circuit protects from over voltage
- Automatic current reduction at stand still

- Absolute low noise and low resonance run
- High and constant torque from step to step
- High step angle accuracy from step to step

- **Dimensions :** Height : Width :Depth (in mm)
157 : 29(44 with heat sink) : 80

Variants / Order code ECMD298.xxx

- .x-- 0/1: w/o heat sink / with heat sink
- .-x- 0/1: with housing / w/o housing
- x 0/1: wall mount / DIN-rail clip



The power drive represents an entirely new power drive generation. State-of-the-art electronic components such as digital signal processors (DSP) and completely new current control algorithms made it possible to significantly reduce the product cost. Still the main focus was to achieve excellent running performance such as low resonance run, high step angle accuracy and high and constant output torque from step to step.

This was realized with a very precise and fully digital phase current control with direct current measurement in the motor windings. An automatic setup routine at power on evaluates the connected motor and sets optimal drive operating parameters. When idle, the drive switches to a stand by mode that generates full holding torque and suppresses motor noise emission. An automatic adjustment of the operating parameters expands the range where the torque remains constant. With this very dynamic positioning moves are also possible at higher speeds.

There is an OEM version (PCB only) for the volume business e.g. operation inside a customer device, then there is an open frame version with mounting bracket and for EMI relevant applications even a version with housing. An optional heat sink can be retrofitted should it be required. The device is preferably wall mount to the control cabinet panel. A DIN-rail clip is available for easy snap on DIN-rail mounting.

- particularly suitable for Step-Motor-Series:
HECM26... SECM26... SECM29...