



Product info ECMD241

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- Power drive for 2-phase stepper motors

- 1/1 1/2 1/4 1/16 Step
- 200, 400, 800, 3200 Steps/Revolution
(based on a Fullstep Angle from 1,8°)
- ECM241... 24...40 Volt, 0,5...1,25 Ampere
- ECM242... 24...40 Volt, 1,0...2,5 Ampere
- High cost-performance

- Inputs: (optically isolated) PULSE, DIRECTION, OFF

Step frequency up to 100 kHz, pulse width 5µs
Wide range signal input voltage (3.5...24)Vdc

- Outputs: (optically isolated) READY

- Robust screw terminals for all elec. connections
- Only one power supply 24...40 Volt required

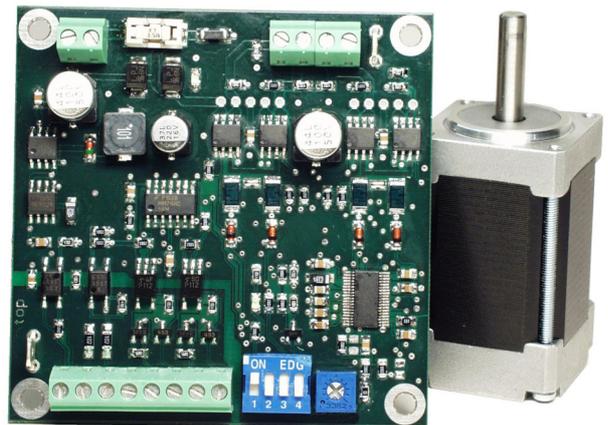
- Motor current adjustable from
0.5...1.25 (1.0...2.5A) with potentiometer

- Automatic current down system
- Status LEDs: Power, Current reduction
- Bipolar power drive, chopped, low noise and reduced power dissipation
- Very compact size: L:D:H: (72:72:10) mm
(3 : 3 :0.5) Inch

Variants / order code

ECMD241.000 0,5 - 1,25 A/ Phase
ECMD241.001 0,5 - 1,25 A/Phase DIN-Rail mounting

ECMD242.000 1,0 - 2,5 A/ Phase
ECMD242.001 1,0 - 2,5 A/Phase DIN-Rail mounting



The ECMD241 (ECMD242) power drive is an absolutely economical driver for all common 2-phase hybrid stepper motors, especially for small motors size 20, 28, 39, 42 mm. The electronic design features very little heat dissipation.

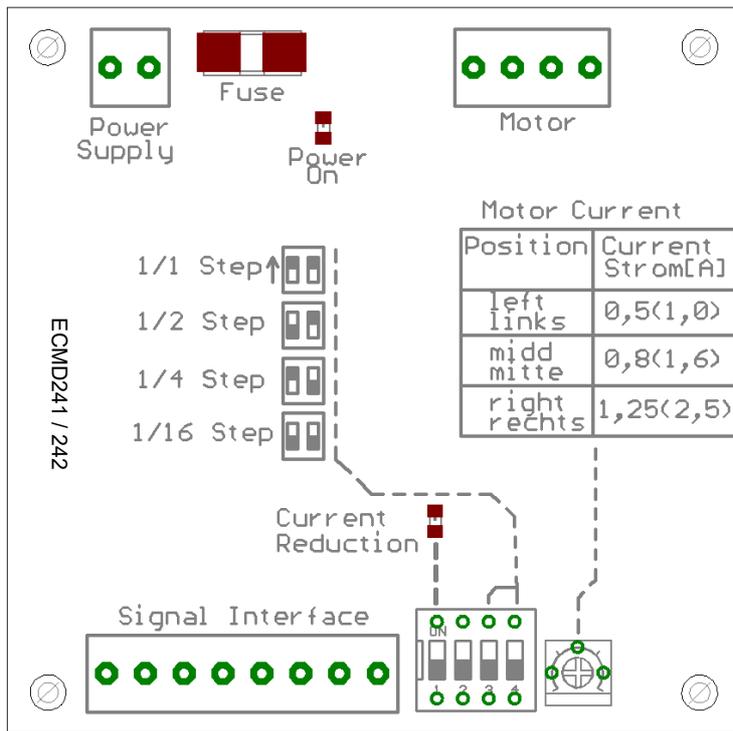
For this reason a very compact drive card could be realised. The drive is suitable for industrial applications. Consequently cheap connectors or jumpers for settings were avoided. Especially life time (MTBF) relevant components are of high quality. The signal interface has galvanic isolation with opto isolators. Cable shield connections are available for EMI protection.

The OEM device technology is the main application field for the drive. Usually the ECMD241 (ECMD242) is mounted inside the OEM device in open frame technology. For simple and fast mounting the power drive can be inserted in a DIN-rail clip module.

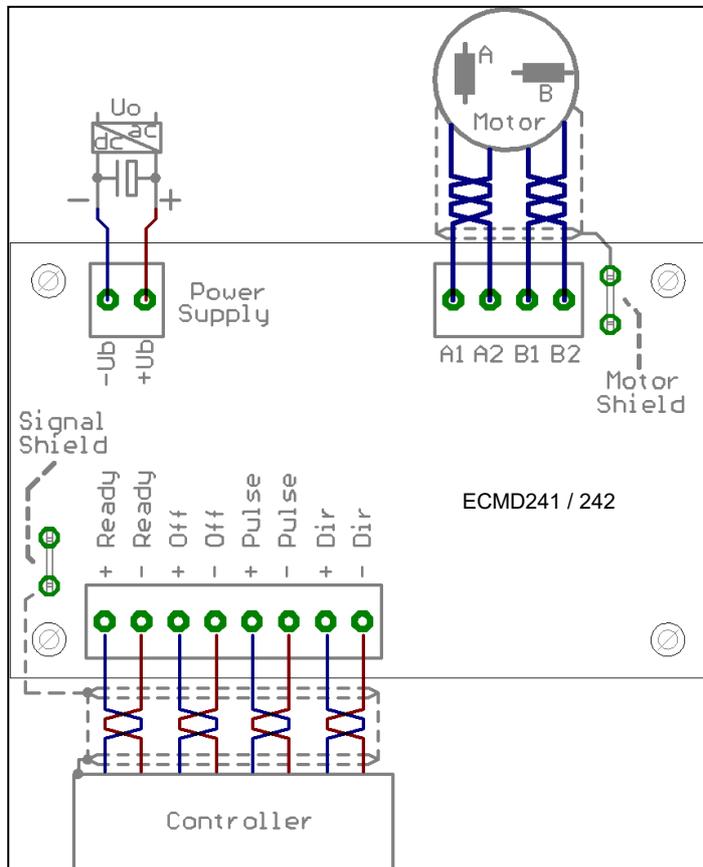
- for Step Motor Series:

HECM21... HECM22... HECM24... SECM24...

Placement of the operating elements



Wiring diagram



Step Motor Connection

Step Motor with 4 Leads (-F):
HECM21...HECM22...SECM24...ECM23...

- A1** = blue
- A2** = red
- B1** = yellow
- B2** = white

Step Motor with 4 Leads (-F):
HECM244... HECM245... HECM246...

- A1** = black
- A2** = green
- B1** = red
- B2** = blue

Step Motor with 6 Leads (-F):
SECM22... SECM24... ECM24...

- A1** = black
- A2** = green
- B1** = red
- B2** = blue

Not connected = yellow, white