

FMod-IPDCMOT 48/1.5

Datasheet

Compact control device for brushed DC motors, 3A repetitive (140W), 1.5A continuous (70W) with 32bit PID algorithms for position or speed control using the trapezoid trajectory profile.

The interface used is the famous and industrial Ethernet standard.

Simply connect this device to your local (or public) Ethernet network (via Cross cable, hubs or switches). It can be remotely controlled (up to several Km).



Dimensions

111 x 75 x 23 mm (LxBxH), with DIN rail connector

Power supply

DC [10-48V], max 3A

Or **Power Over Ethernet** compliant [PoE, IEEE 802.3af], for 48V up to 0.35A with RJ45 cable

Configuration interface

Hardware: **Standard** Ethernet 10BaseT [RJ45]
Protocols: TCP-IP & UDP + message encapsulation
Software: Web Server on board, web pages with HTTP

Motion control

Regulator: **32 bit PID**
Sampling rate: 20 - 2000 Hz (regulation frequency)
Modes:
- *Brake Mode*
- *Free Mode*
- *Open Loop Mode*
- *Speed Control Mode* (with trajectory profile)
- *Position Control Mode* (with trajectory profile)
Homing (reference): 10 different homing modes
Limits (end strokes): 2 independently? powered inputs, configurable behaviour

PWM output

78 kHz or 39 kHz, 4 quadrants management.
1.5A continuous, 3A max, motor output power.

Current limitation

Onboard configuration possible (TCP-IP) between 0.05 and 3 A, thus preventing motor overheating and wear.

Limits

2 mechanical, optical or hall sensors (5V) can be connected and configured for different purposes such as homing.

Encoder

5V DC, incremental A+B (+Index) (max 500 kHz) quadrature encoder **with differential RS422 line driver**

Where to find more information

Please download the user's manual from the following address: http://www.fiveco.ch/section_motion/support_motion_E.htm