FMod-IPECMOT 48/10 T1

Compact control device for DC brushed and 3 phases brushless (with hall sensors) motors, 15A repetitive (720W), 10A continuous (480W). 4 quadrants power stage and 32bit PID algorithms for position or speed control using the trapezoid trajectory profile.

The interface is Ethernet (standard).

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



Dimensions

120 x 110 x 34 mm (LxBxH), with DIN rail connector

Power supply

DC [15-48V], max 15A

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 with auto-tuning capability**Sampling rate: 20 - 2000 Hz (regulation frequency)

Modes: - Brake

- Free

- Open Loop

Speed Control (with trajectory profile)Position Control (with trajectory profile)

Homing (reference): 10 different homing modes

Limits (end strokes): 2 independently powered inputs, configurable behaviour Extra feature: EC motors' Hall sensors can be used as encoders.

PWM output

70 kHz or 35 kHz, 4 quadrants management, power-bridge with thermal protection.

10A continuous, 15A max, motor output power.

Current limitation

Onboard configuration possible (TCP-IP) between 0.1 and 15 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 lines (RS422 driver).

Where to find more information

Please download the user's manual from the following address: http://www.fiveco.ch/motor-controlers-products.html

Developed and made in Switzerland

08062016/2.3 All specifications may change without any notification.

