

MCD Epos compact drive

MCD EPOS, compact drive with integrated positioning controller

Maxon motor AG specializes in the development, manufacturing and sales of high quality drive components and systems under the trade mark maxon motor. All key components are manufactured in-house with custom design machinery. Our most important key technologies are three winding processes, motor manufacture and gearhead production as well as electronics, magnetic encoder components and the application of high-tech ceramics.

Maxon's compact drives feature controllers, sensors and motors in a modern aluminum casing. The use of existing maxon products with an adapted design results in robust, space-saving drive solutions with high power density. The decentralized concept of these intelligent drives minimizes the use of centralised controllers.

The combination of the brushless maxon EC motor, digital MR encoder and the fully digital EPOS positioning controller results in a highly dynamic, maintenance-free positioning drive with excellent functionality and high efficiency. Planetary gearheads can be selected from the maxon gear programme as an option for greater torque.

The MCD EPOS is fitted with several opto-coupled inputs and outputs. Sensor signals and events can be evaluated directly in the drive. Cable lengths are shorter, thus reducing susceptibility to interference. Drive commanded by graphic user interface with many functions and wizards for start-up procedure, automatic control settings, I/O configuration and tests.

Product features

- CANopen profile position-, profile velocity- and homing mode
- Position-, velocity-, current-, master encoder- and step direction mode
- Position regulation with velocity- and acceleration feed-forward
- Sinusoidal and trapezoidal motion profiles
- Smart multi-purpose digital I/Os configurable as: positive and negative limit switch, home switch, position marker, enable and ready output
- General purpose digital I/Os
- Communication via CAN and/or EIA-232 (RS-232)
- Gateway EIA-232 (RS-232) to CAN for service
- Built-in data recorder, auto tuning of controller parameters
- Windows-based graphical user interface for configuration and auto-tuning free of charge
- IEC 1131 libraries for different PLC free of charge
- Windows DLL free of charge

Product family

- MCD EPOS 60 W , 12 V to 50 V, nominal torque 54 mNm

Applications

- Automation
- Electronic production
- Packing equipment
- Materials handling

Contact

□

Maxon

BrÄ¼nigstrasse 220, PO Box 263
CH-6072 Sachseln, OW

Email: info@maxongroup.com

Phone: +41-41-6661500

Fax: +41-41-6661650

Web: <http://www.maxongroup.com>

Features

NMT	NMT slave
Error control	Node guarding Heartbeat producer
Boot-up	Yes
Node ID range	From 1 to 127
Node ID	Software switch LSS-services Proprietary
CANopen bit-rates	20 kbit/s 50 kbit/s 125 kbit/s 250 kbit/s 500 kbit/s 800 kbit/s 1 000 kbit/s

Type of bit-rate adjustment	Software switch LSS-service (defined in CiA 305) Proprietary
RPDOs	4
TPDOs	4
PDO modes	Event-triggered Remotely-requested Synchronous (cyclic)
PDO linking	Yes
PDO mapping	Variable
SDO server	1
SDO client	No
Emergency producer	Yes
Emergency consumer	No
Sync producer	No
Sync counter	No
Time stamp	No
Additional functions	LSS slave
CANopen version	CiA 301 V 4.0.2 CiA 301 V 4.1
Frameworks	CiA 305
Device profiles	CiA 402: CANopen drives and motion control device profile
Certified	No
Availability	In stock