

NEW**DIGITAL****CANopen****RS232****GUI****USB****EPOS2 50/5**

Matched with DC brush motors with encoder or brushless EC motors with Hall sensors and encoder, from 5 to 250 watts.

EPOS2 70/10

Matched with DC brush motors with encoder or brushless EC motors with Hall sensors or encoder, from 80 to 700 watts.

Additional information**Controller versions**

| Slave version | Slave version |
|--|--|
| Electrical Data | |
| 11 - 50 VDC | 11 - 70 VDC |
| 11 - 50 VDC | 11 - 70 VDC |
| 0.9 x V _{CC} | 0.9 x V _{CC} |
| 10 A | 25 A |
| 5 A | 10 A |
| 10 kHz | 10 kHz |
| 1 kHz | 1 kHz |
| 1 kHz | 1 kHz |
| 25 000 rpm (sinusoidal); 100 000 rpm (block) | 25 000 rpm |
| 22 µH / 5 A | 25 µH / 10 A |
| Input | |
| H1, H2, H3 | H1, H2, H3 |
| A, A _l , B, B _l , I, I _l (max. 5 MHz) | A, A _l , B, B _l , I, I _l (max. 1 MHz) |
| 11 digital inputs | 8 digital inputs |
| 2 analogue inputs (differential) | 2 analogue inputs |
| 12-bit resolution, ±10 V | 10-bit resolution, 0 ... +5 V |
| Configurable with DIP switch 1 ... 10 | Configurable with DIP switch 1 ... 7 |
| Output | |
| 5 digital outputs; 1 analogue 12-bit 0 ... 10 V | 4 digital outputs |
| +5 VDC max. 100 mA | +5 VDC, max. 100 mA |
| +5 VDC max. 30 mA | +5 VDC, max. 30 mA |
| +5 VDC max. 150 mA | +5 VDC (R _i = 1 kΩ) |
| Interface | |
| RxD; TxD (max. 115 200 bit/s) | RxD; TxD (max. 115 200 bit/s) |
| high; low (max. 1 Mbit/s) | high; low (max. 1 Mbit/s) |
| Data+; Data- (max. 12 Mbit/s) | |
| Indicator | |
| Red LED, green LED | Bi-colour LED |
| Ambient temperature / Humidity range | |
| -10 ... +45°C | -10 ... +45°C |
| -40 ... +85°C | -40 ... +85°C |
| 20 ... 80 % | 20 ... 80 % |
| Mechanical data | |
| Approx. 240 g | Approx. 330 g |
| 120 x 93.5 x 27 mm | 150 x 93 x 27 mm |
| Flange for M3-screws | Flange for M3-screws |
| Order Number | |
| 347717 EPOS2 50/5 | 300583 EPOS 70/10 |

Modes of Operation

CANopen Profile Position-, Profile Velocity- and Homing Mode
 Position-, Velocity- and Current Mode
 Digital position setting by Step-Direction or Master Encoder
 Path generating with trapezoidal or sinusoidal velocity profiles
 Feed forward for velocity and acceleration
 EPOS2 additional interpolated position mode
 Sinusoidal or block commutation for EC motors

Communication

Communication via CANopen and/or RS232, EPOS2 additionally with USB 2.0
 Gateway RS232 to CAN
 EPOS2 additionally gateway USB to CAN

Inputs / Outputs

Free configurable digital inputs e.g. for limit switches and reference switches
 Free configurable digital outputs e.g. for brakes
 Free analogue inputs

Available software

EPOS Studio
 EPOS Graphical User Interface (GUI)
 Windows DLL
 IEC 61131-3 Libraries
 Firmware

Available documentation

Getting Started
 Cable Starting Set
 Hardware Reference
 Firmware Specification
 Communication Guide
 Application Notes

Cable

A comprehensive range of cables is available as an option. Details can be found on page 299.

Accessories

309687 DSR 50/5 Shunt regulator **235811** DSR 70/30 Shunt regulator
 Order accessories separately, see page 299 Order accessories separately, see page 299