

EPOS4 Positioning Controllers Data



EPOS4 Compact 50/5 CAN

Ready-to-install compact solution, designed for use with brushed DC motors with encoders or brushless EC motors with Hall sensors and encoders up to 250/750 Watt.

EPOS4 Compact 50/5 EtherCAT

Ready-to-install compact solution, designed for use with brushed DC motors with encoders or brushless EC motors with Hall sensors and encoders up to 250/750 Watt.

EPOS4 Compact 50/8 CAN

Ready-to-install compact solution, designed for use with brushed DC motors with encoders or brushless EC motors with Hall sensors and encoders up to 400/1500 Watt.

Controller version

CANopen Slave

EtherCAT Slave

CANopen Slave

Electrical data

10 - 50 VDC

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0.9 x V_{CC}

0.9 x V_{CC}

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15 A (<3 s)

15 A (<3 s)

30 A (<5 s)

5 A

5 A

8 A

50 kHz

50 kHz

50 kHz

25 kHz (40 µs)

25 kHz (40 µs)

25 kHz (40 µs)

2.5 kHz (400 µs)

2.5 kHz (400 µs)

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50 000 rpm (sinusoidal), 100 000 rpm (block)

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9.4 µH / 5 A

10 µH / 5 A

2.2 µH / 15 A

Inputs

H1, H2, H3

H1, H2, H3

H1, H2, H3

A, A\, B, B\, I, I\ (max. 6.25 MHz)

A, A\, B, B\, I, I\ (max. 6.25 MHz)

A, A\, B, B\, I, I\ (max. 6.25 MHz)

A, A\, B, B\, I, I\, Clock, Clock\, Data, Data\

A, A\, B, B\, I, I\, Clock, Clock\, Data, Data\

A, A\, B, B\, I, I\, Clock, Clock\, Data, Data\

4 (level switchable: logic/PLC)

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4, differential

4, differential

4, differential

2 (12-bit resolution, -10...+10 V)

2 (12-bit resolution, -10...+10 V)

2 (12-bit resolution, -10...+10 V)

configurable with DIP switch 1...5

configurable with DIP switch 1...5

configurable with DIP switch 1...5

Outputs

2

2

2

1, differential

1, differential

1, differential

2 (12-bit resolution, -4...+4 V, max. 1 mA)

2 (12-bit resolution, -4...+4 V, max. 1 mA)

2 (12-bit resolution, -4...+4 V, max. 1 mA)

+5 VDC, max. 70 mA

+5 VDC, max. 70 mA

+5 VDC, max. 70 mA

+5 VDC, max. 30 mA

+5 VDC, max. 30 mA

+5 VDC, max. 30 mA

+5 VDC, max. 145 mA

+5 VDC, max. 145 mA

+5 VDC, max. 145 mA

Interfaces

high; low (max. 1 Mbit/s)

–

high; low (max. 1 Mbit/s)

–

100 Mbit/s (Full Duplex)

–

RxD; TxD (max. 115 200 bit/s)

–

RxD; TxD (max. 115 200 bit/s)

Data+; Data- (Full Speed)

Data+; Data- (Full Speed)

Data+; Data- (Full Speed)

Indicator

Green LED, red LED

Green LED, red LED

Green LED, red LED

Environmental conditions

-30...+25°C

-30...+25°C

-30...+45°C

+25...+70°C; Derating: -0.111 A/°C

+25...+70°C; Derating: -0.111 A/°C

+45...+77°C; Derating: -0.250 A/°C

-40...+85°C

-40...+85°C

-40...+85°C

5...90%

5...90%

5...90%

Mechanical data

approx. 58 g

approx. 76 g

approx. 86 g

55.0 x 40.0 x 31.1 mm

55.0 x 56.5 x 31.7 mm

59.5 x 58.5 x 33.0 mm

M2.5 screws

M2.5 screws

M2.5 screws

Part numbers

541718 EPOS4 Compact 50/5 CAN

628094 EPOS4 Compact 50/5 EtherCAT

520885 EPOS4 Compact 50/8 CAN

Accessories

309687 DSR 50/5 Shunt regulator

309687 DSR 50/5 Shunt regulator

235811 DSR 70/30 Shunt regulator

Order accessories separately, see page 578

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