

MIP 10

The complete system for DC motors up to 50 watts



Applications

- Test, evaluation and training
- Work equipment and examination equipment manufacturing
- Small series manufacturing

Order Number

- 111091** MIP 10 set (incl. cable)
108971 MIP 10 set (without cable)

Characteristics

- Easy and fast start-up procedure
- All cables included
- Supply voltage 9 - 24 VDC

DIGITAL

RS485

RS232

GUI

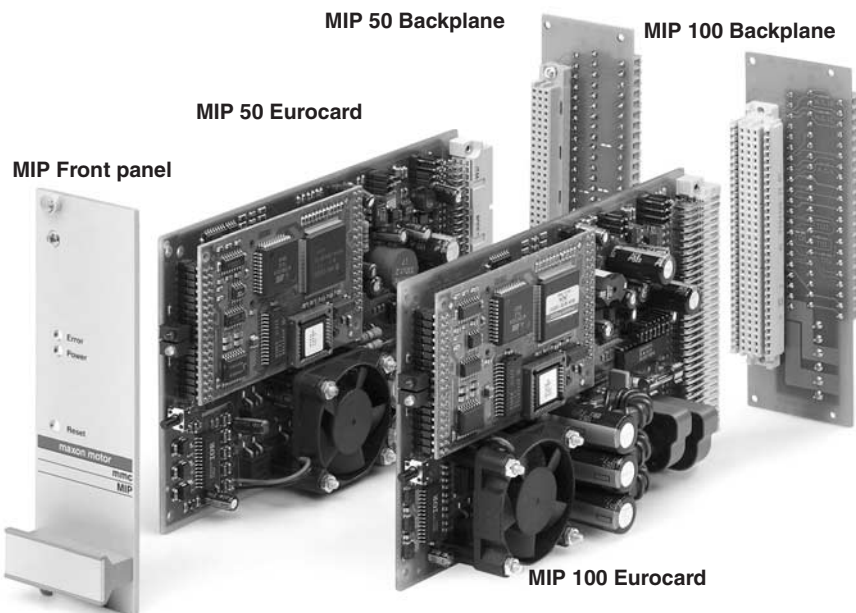
Technical Data

- Operating voltage 9 - 24 VDC
- Max. output current I_{max} 2 A (5 s)
- Continuous output current I_{cont} 1.8 A
- Switching frequency 60 kHz
- Built-in motor choke per phase 1 mH
- Current limit digital adjustable
- Current resolution 5 mA
- Sample rate of PI-current controller 8 kHz
- Sample rate of PID-positioning control 1 kHz
- Max. speed 65 000 rpm
- I/O level max. 24 V
- I/O logic configurable by Jumper
- Digital inputs (ESD protected): STOP, Enable, Reference, Limit cw / ccw and 8 standard inputs
- Analog inputs (ESD protected): 2 x 0 ... 5 VDC
- Encoder input 1 x incremental encoder / RS422 (5 V, channels A, A', B, B', I, I')
- Max. input frequency 250 kHz
- Digital outputs: Error and 4 standard outputs
- 24 V-switching max. 100 mA each
- GND-switching total 450 mA
- Other outputs 1 x PWM (50 kHz), freely adjustable
- Interface RS232 & RS485 (max. 57 600 Baud)
- Operating temperature 0 ... 40°C
- Housing Metal, 132 x 114 x 31 mm
- Connector 3 x 9 poles DSUB (COM, Encoder, Power / Motor) 1 x 25 poles DSUB (I/O)

maxon motor control

MIP 50 / 100

The modular solution for DC and EC motors up to 500 watts



Applications

- Machine tool industry
- Work equipment and examination equipment manufacturing
- Small and large series manufacturing

Order Number

- 200640** MIP front panel (3HE / 8TE)
200629 MIP 50 eurocard
199950 MIP 50 backplane
246244 MIP 100 eurocard
245963 MIP 100 backplane

Characteristics

- To be installed in a 19"-subrack or in a plug-in card system
- Networks of up to 64 drives are possible by RS485 interface
- Complex digital inputs and outputs, configurable to high- or low-active logic

DIGITAL

RS485

RS232

GUI

Technical Data

- Operating voltage MIP 50 24 - 48 VDC
MIP 100 24 - 48 VDC
- Max. output current I_{max} MIP 50 11 A (5 s), 13 A (200 ms)
MIP 100 15 A (5 s), 20 A (200 ms)
- Continuous output current I_{cont} MIP 50 5 A
MIP 100 10 A
- Switching frequency 60 kHz
- Built-in motor choke per phase MIP 50 3 x 0.16 mH
MIP 100 none (min. 3 x 0.09 mH)
- Current limit digital adjustable
- Current resolution MIP 50 15 mA
MIP 100 45 mA
- Sample rate of PI-current controller 8 kHz
- Sample rate of PID-positioning control 1 kHz
- Max. speed (motor with 2 poles) 65 000 rpm
- I/O-level max. 24 V
- I/O-logic configurable by Jumper
- Digital inputs (ESD protected): STOP, Enable, Reference, Limit cw / ccw and 8 standard inputs
- Analog inputs (ESD protected): MIP 50 2 x 0 ... 5 VDC
MIP 100 1 x 0 ... 5 VDC
- Encoder input 1 x incremental encoder/RS422 (5 V, channels A, A', B, B', I, I')
- Max. input frequency 250 kHz
- Digital outputs: Error and 6 standard output max. 100 mA each
- 24 V-switching total 450 mA
- GND-switching total 450 mA
- Other outputs 1 x PWM (50 kHz), freely adjustable
- Interface RS232 & RS485 (max. 57 600 Baud)
- Operating temperature 0 ... 40°C
- Version single eurocard 3HE / 8TE
- Connector, DIN41612-connector, type C MIP 50 96-Pin
MIP 100 160-Pin