MX-106T / MX-106R

Parts Photo



[MX-106T]

[MX-106R]

- * Control Table's Compliance replaced by PID.
- * The control table's order for PID has changed to DIP from this version onwards. Please make reference of this change.
- * Although the MX-106T (TTL) and MX-106R (RS-485) differ in communications protocols both have the same features and perform equally. (TTL uses 3-pin connectors while RS-485 uses 4)

H/W Specification

- MCU : ST CORTEX-M3 (STM32F103C8 @ 72MHZ,32BIT)
- POSITION SENSOR : Contactless absolute encoder (12BIT,360 DEGREE)
 - o Maker : ams (www.ams.com), Part No : AS5045
- MOTOR : Maxon
- BAUD RATE : 8000 bps ~ 4.5 Mbps
- CONTROL ALGORITHM : PID CONTROL
- Resolution : 0.088°
- Running Degree
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 - \circ 0° ~ 360°
 - o Endless Turn
- Weight : 153g
- Dimension : 40.2mm x 65.1mm x 46mm

- Gear Reduction Ratio : 225 : 1
- Stall Torque

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- o 8.0N.m (at 11.1V, 4.8A),
- o 8.4N.m (at 12V, 5.2A)
- o 10.0N.m (at 14.8V, 6.3A)
- No load speed

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- o 41rpm (at 11.1V)
- o 45rpm (at 12V)
- o 55rpm (at 14.8V)
- Running Temperature : −5℃ ~ +80℃
- Voltage : 10 ~ 14.8V (Recommended Voltage 12V)
- Command Signal : Digital Packet
- Protocol Type

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- MX-106T (Half duplex Asynchronous Serial Communication (8bit,1stop, No Parity))
- o MX-106R (RS485 Asynchronous Serial Communication (8bit,1stop, No Parity))
- Link (Physical)
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 - o MX-106T (TTL Level Multi Drop Bus)
 - o MX-106R (RS485 Multi Drop Bus)
- ID: 254 ID (0~253)
- Feedback : Position, Temperature, Load, Input Voltage, etc.
- Material : Full Metal Gear, Engineering Plastic Body
- Standby current : 100 mA