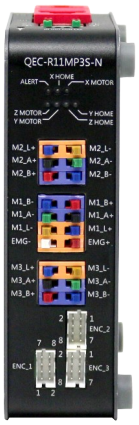
QEC-RXXMP3S

EtherCAT Slave 3 axis Stepper Motor Controller



Features:

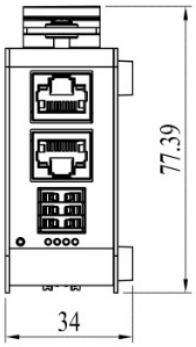
- Support Drive Profile with CiA402 and G-code
- 3 stepper motors (2-phase bipolar stepper motor)
- Drive current up to 4.84A, peak 5.0A (Adjustable by Switch)
- Encoder interfaces (A, B, Z), differential
- Automatic current reduction when the motor is not moving
- Internal Monitoring Hardware Information
- EtherCAT Conformance test tool verified
- Operating Temperature -20 to +70 °C

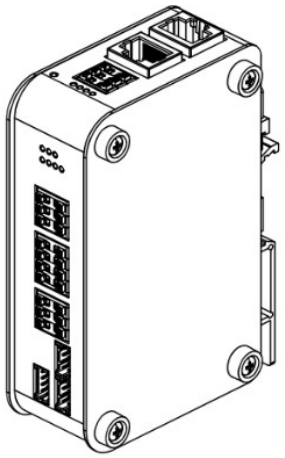
Ordering Information

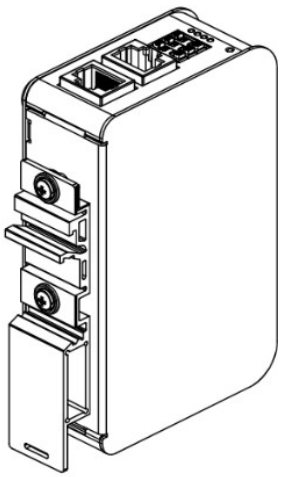
QEC-R00MP3S-N	EtherCAT Slave 3 axis Stepper Motor Controller
QEC-R00MP3S-C	EtherCAT Slave 3 axis Stepper Motor Controller (board with coating)
QEC-R11MP3S-N	EtherCAT Slave 3 axis Stepper Motor Controller/PoE

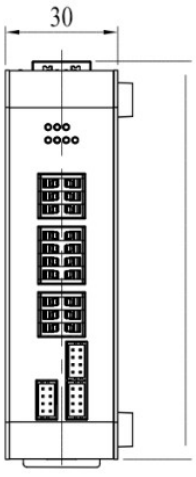
* For detailed ordering information, please contact our sales staff or view the user manual.

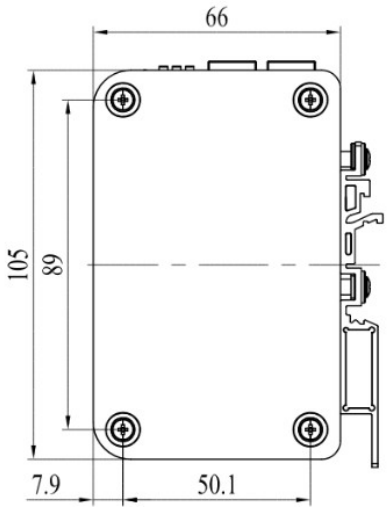
Dimension

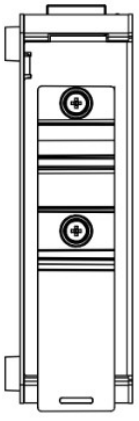












Specifications

Stepper Motor	
Interface	EtherCAT
Drive Profile	CiA402, G-code
Minimum Communication Cycle	125 µs
Synchronization Mode	DC, SM2, FreeRun
Compatible Operation Mode	Profile Position (pp) Homing (HM: Support Method 19, 20, 21, 22) Cyclic Synchronous Position (csp) Cyclic Synchronous Velocity (csv)
Number of Motors	3 x Stepper Motors (2-phase bipolar stepper motor)
Output Current	Max. 4.84A, peak 5.0A
Voltage Requirement	+8 to +42VDC
Step frequency	200KHz
Microsteps	Max. 16 per step
Digital Inputs	3 x home switch & Emergency Stop Input
Encoder	
Encoder Inputs	3 x Encoder counter (A, B, Z), differential
Maximum Encoder pulse frequency	14 MHz
Encoder Power supply	5V
General	
Connector	Push-in Terminal (Euroblock)
Protocol	EtherCAT (RJ-45 x 2)
Ethernet Standard	IEEE 802.3
Transmission Rate	100Mbps
Power Connector	4-pin Power Input/Output & 2-pin FGND
Power Requirement	+19 to +36VDC Power Input (Typ. +24VDC@300mA)
Power Consumption	Min. 7.2 W
LED Indicator	PWR, RUN, LINK, ERROR, Alarm, Home, Motor
Certifications	CE, FCC, VCCI
Environment	
Operating Temperature	-20 to +70 °C
Drive Protection	Thermal shutdown (TSD) circuit Under voltage lock out (UVLO) circuit Over-current detection (ISD) circuit
Hardware	
Dimension	107.45 x 66 x 30mm (Without DIN-Rail)
Weight	370 g
Installation	DIN rail
Internal Monitoring	Temperature, Voltage, Current, Startup time