

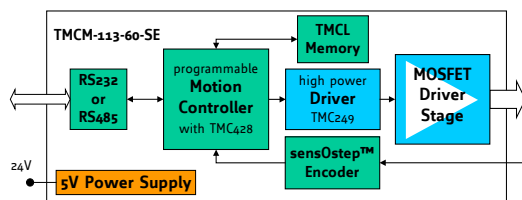
TMCM-113-60

1-Axis
Motor Mountable (NEMA23/24)
Controller / Driver
2.8A / 24V

INFO The TCMC-113-60-SE is an intelligent stepper motor controller and driver module to be mounted directly on a 57/60mm flange QMot stepper motor. This module converts the motor into a compact mechatronic device with bus oriented or stand-alone control. The motor, switches, power and the multi purpose I/Os can be connected with small pluggable connectors. The TCMC-113-60-SE comes with the PC based software development environment TMCL-IDE for the Trinamic Motion Control Language (TMCL™). Using predefined TMCL™ high level commands like „move to position“ or „constant rotation“ a rapid and fast development of motion control applications is guaranteed. The TCMC-113-60-SE can be controlled via RS-232 or RS-485. Communication traffic is kept very low since all time critical operations, e.g. ramp calculation are performed onboard. The TMCL™ program can be stored in the on board EEPROM for stand-alone operation. The firmware of the module can be updated via the serial interface. With the stallGuard™ feature it is possible to detect motor overload or motor stall.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - nom. 24V DC supply voltage (7V to 28.5V)
 - up to 2.8A RMS coil current (4A PEAK)
- SUPPORTED MOTORS**
 - two-phase bipolar motors with 1.4A to 2.8A coil current
 - mountable on QMot motors with flange size: 57mm/NEMA23 or 60mm/NEMA24
- INTERFACE**
 - RS232 or RS485 interface
 - 2 inputs for reference and stop switches
 - 2 general purpose inputs (+24V compatible)
 - 2 general purpose outputs (open-collector)
- FEATURES**
 - chopSync™ feature for high motor velocity by reducing resonances
 - stallGuard™ for sensorless motor stall detection
 - up to 16 times microstepping
 - memory for 2048 TMCL commands
 - real-time motion profile calculation (in hardware)
 - on the fly alteration of motion parameters (e.g. position, velocity, acceleration)
 - dynamic current control
 - integrated protection
- SOFTWARE**
 - stand-alone operation using TMCL™ or remote controlled operation
 - PC-based application development software TMCL-IDE included
- OTHER**
 - pluggable JST connectors
 - RoHS compliant
 - size: 60 x 60 mm²



ORDER CODE	DESCRIPTION
TMCM-113-60-SE (-option)	PANdrive 0.55 Nm, 65 mm length with motor QSH5718-41-28-055
TMCM-113-CABLE	cable loom including all necessary cables (single ended)
Related products:	QMot motors QSH5718 (new series), QSH6018
OPTIONS	
232	RS232 interface, TMCL™ firmware
485	RS485 interface, TMCL™ firmware