



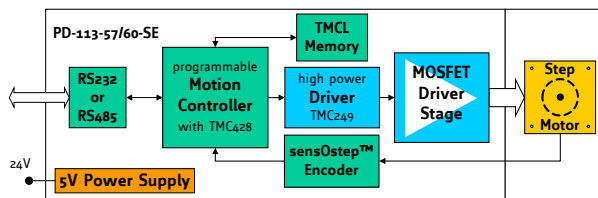
# PD-113-57-SE PD-113-60-SE

57mm / NEMA23 or  
60mm / NEMA24  
Stepper Motor with  
Controller / Driver,  
with Encoder and  
Serial Interface

**INFO** The PD-113-57/60-SE is a full mechatronic solution including a 57 or 60 mm flange motor (NEMA23/NEMA24). It combines a convenient controller electronic and a sensOstep™ encoder with a range of different motor types and can be controlled via RS-232 or RS485 interface. The chopSync™ feature allows high velocity operation avoiding resonances. The PD-113-57/60-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. Communication traffic is kept very low since all time critical operations, e.g. ramp calculation are performed onboard.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
  - nom. 24V DC supply voltage (28.5V max.)
  - up to 2.8A RMS coil current
- MOTOR DATA**
  - please also refer to the motor datasheet
- INTERFACE**
  - RS232 or RS485 interface
  - 2 inputs for reference switches
  - 2 general purpose inputs (+24V compatible)
  - 2 general purpose outputs (open-collector)
- FEATURES**
  - sensOstep™ encoder (max. 256 incr./rot.)
  - chopSync™ for high velocity operation
  - stallGuard™ for motor stall detection
  - up to 16 times microstepping
  - memory for 2048 TMCL commands
  - motion profile calculation in real-time
  - on the fly alteration of motion parameters
  - dynamic current control
  - integrated protection
- SOFTWARE**
  - stand-alone operation using TMCL or remote controlled operation
  - PC-based application development software TMCL-IDE included
- OTHER**
  - RoHS compliant



ORDER CODE	DESCRIPTION
PD1-113-57-SE (-option)	PANdrive 0.55 Nm, 65 mm length with motor QSH5718-41-28-055
PD2-113-57-SE (-option)	PANdrive 1.01 Nm, 75 mm length with motor QSH5718-51-28-101
PD3-113-57-SE (-option)	PANdrive 1.26 Nm, 80 mm length with motor QSH5718-56-28-126
PD4-113-57-SE (-option)	PANdrive 1.89 Nm, 100 mm length with motor QSH5718-76-28-189
PD1-113-60-SE (-option)	PANdrive 1.10 Nm, 69 mm length with motor QSH6018-45-28-110
PD2-113-60-SE (-option)	PANdrive 1.65 Nm, 80 mm length with motor QSH6018-56-28-165
PD3-113-60-SE (-option)	PANdrive 2.10 Nm, 89 mm length with motor QSH6018-65-28-210
PD4-113-60-SE (-option)	PANdrive 3.10 Nm, 110 mm length with motor QSH6018-86-28-310
<b>OPTIONS</b>	
232	RS232 interface
485	RS485 interface