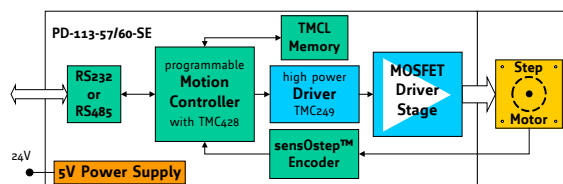10 mm

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
OPTIONS	
232	RS232 interface
485	RS485 interface

www.trinamic.com – for detailed information and datasheets

85