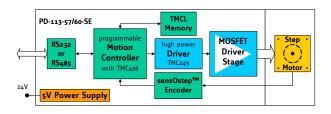


## PD-**113-57**-SE PD-**113-60**-SE

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

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 • 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<sup>TM</sup> 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

FORTHARE .

 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 o.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