7

10 mm

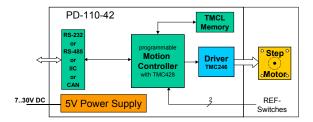
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PD-110-42

42mm / NEMA17 Stepper Motor with Controller / Driver and Serial Interface

INFO	The PD-110-42 is a full mechatronic solution including a 42 mm
	flange motor. It joins a convenient controller electronic with
	a range of different motor torques. The PD-110-42 offers three
	motor torque options and can be controlled via RS-232, RS-485,
	CAN or IIC interface. The power supply, interface and the multi
	purpose I/Os can be connected with small JST connectors. The
	PD-110-42 comes with the PC based software development en-
	vironment 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 on board. The TMCL program
	can be stored in the on board EEPROM for stand-alone opera-
	tion. 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	 7V to 34V supply voltage
MOTOR DATA	 total length: 53mm / 59mm / 69mm: max. torque 0.27Nm / 0.35Nm / 0.49Nm
	 please also refer to the motor datasheet
INTERFACE	 RS-232, RS-485, I²C or CAN 2.0b host interface
	· 2 inputs for reference and stop switches
	 1 general purpose input and 1 output
FEATURES	• up to 16 times microstepping
	 memory for 2048 TMCL commands
	\cdot automatic ramp generation in hardware
	 on the fly alteration of motion parameters (e.g. position, velocity, acceleration)
	 stallGuard[™] for sensorless
	motor stall detection
	 dynamic current control
SOFTWARE	 stand-alone operation using TMCL or remote controlled operation
	 PC-based application development software TMCL-IDE included
OTHER	pluggable JST connectors /

cables included

RoHS compliant

ORDER CODE	DESCRIPTION		
PD1-110-42 (-option)	PANdrive 0.27Nm with QSH4218-35-10-027 motor		
PDz-110-42 (-option)	PANdrive 0.35Nm with QSH4218-41-10-035 motor		
PD3-110-42 (-option)	PANdrive 0.49Nm with QSH4218-51-10-049 motor		
OPTIONS			
232	RS-232 interface		
485	RS-485 interface		
IIC	I ² C interface		
CAN	CAN interface		

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www.trinamic.com - for detailed information and datasheets