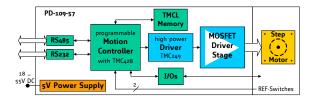
+

10 mm

+



INFO The PD-109-57 is a full mechatronic solution including a 57 mm flange motor (NEMA23). It combines a convenient controller electronic with a range of different motor types. The PD-109-57 offers three motor torque options and can be controlled via RS-232 or RS-485 interface. The power supply, interface and the multi purpose I/Os can be connected via two pluggable screw connectors. The PD-109-57 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. 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.



www.trinamic.com - for detailed information and datasheets



57mm / NEMA23 Stepper Motor with Controller / Driver and Serial Interface

	MAIN CHARACTERISTICS
ELECTRICAL DATA	• 18V to 55V supply voltage
DATA	 3A RMS nominal motor current (5A peak possible)
MOTOR DATA	 total length: 71 mm / 85 mm / 108 mm: max. torque 0.47Nm / 0.98Nm / 1.63Nm
	 please also refer to the motor datasheet
INTERFACE	 RS232 and RS485 host interface
	\cdot 2 inputs for reference and stop switches
	• 3 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
	 optically isolated inputs
	 dynamic current control
SOFTWARE	 stand-alone operation using TMCL or remote controlled operation
	 PC-based application development software TMCL-IDE included
OTHER	 pluggable screw terminal connectors for all external signals

RoHS compliant

ORDER CODE	DESCRIPTION	
PD1-109-57 (-option)	PANdrive 0.47 Nm with motor QSH5718-41-30-047	
PDz-109-57 (-option)	PANdrive 0.98 Nm with motor QSH5718-55-30-098	
PD3-109-57 (-option)	PANdrive 1.63 Nm with motor QSH5718-79-30-163	
OPTIONS		
RS	RS-232 and RS-485 interface	

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