

PD57-1060 PD60-1060

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

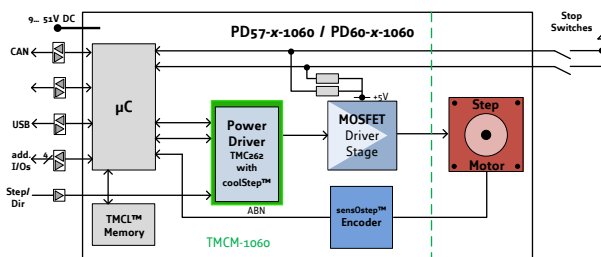
INFO The PANdrive PD57-1060 and PD60-1060 family is a mechatronic solution including a 57mm or 60mm flange motor, a controller board and a sensOstep™ encoder. It can be controlled via serial interface or operated in stand-alone mode. Power supply, external encoder, interface and I/Os can be connected with JST connectors.

With the advanced stallGuard2™ the motor load can be detected with high resolution. The outstanding coolStep™ technology for sensorless load dependent current control allows efficient motor operation.

The Pandrive comes with the PC based software development environment TMCL-IDE for the Trinamic Motion Control Language (TMCL™).

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - nom. 48V DC supply voltage (18V to 55V)
 - up to 2.8A RMS coil current
- MOTOR DATA**
 - flange size 57mm/NEMA23 or 60mm/NEMA24
- INTERFACE**
 - CAN, USB, RS232, RS485
 - step&direction interface
 - inputs for ref. & stop switches
 - general purpose I/Os
- FEATURES**
 - up to 256 times microstepping
 - memory for 2048 TMCL commands
 - stallGuard2™ sensorless load detection
 - coolStep™ sensorless load dependent current control
 - microPlyer™ 16 to 256 times microstepping interpolation
 - integrated absolute sensOstep™ encoder
 - automatic ramp generation in hardware
 - on the fly alteration of motion parameters
- SOFTWARE**
 - stand-alone operation using TMCL™ or remote controlled operation
 - PC-based application development software TMCL-IDE included
 - optional CANopen firmware (CiA 302, 402)
- OTHER**
 - RoHS compliant



ORDER CODE	DESCRIPTION
PD57-1-1060 (-option)	0.55 Nm / QMot motor QSH5718-41-28-055
PD57-2-1060 (-option)	1.01 Nm / QMot motor QSH5718-51-28-101
PD57-3-1060 (-option)	1.16 Nm / QMot motor QSH5718-56-28-116
PD57-4-1060 (-option)	1.01 Nm / QMot motor QSH5718-51-28-101
PD60-1-1060 (-option)	1.10 Nm / QMot motor QSH6018-45-28-110
PD60-2-1060 (-option)	1.65 Nm / QMot motor QSH6018-56-28-165
PD60-3-1060 (-option)	2.10 Nm / QMot motor QSH6018-65-28-210
PD60-4-1060 (-option)	3.10 Nm / QMot motor QSH6018-86-28-310
ORDER OPTIONS	
TMCL	with TMCL™ firmware
CANopen	with CANopen firmware (under development)