

PD-1160

57/60mm | NEMA23/24
 Stepper Motor with
 Controller / Driver
 0.55 - 3.1Nm / 48V
 sensOstep™ Encoder
 Serial Interface

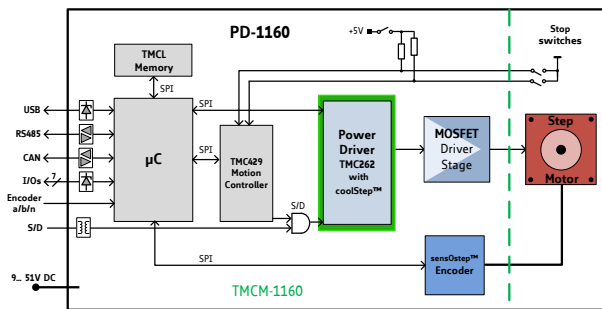
INFO The PANdrive PD57-1160 and PD60-1160 family is a mechatronic solution including a 57mm or 60mm flange motor, a control-board and a sensOstep™ encoder. It can be controlled via serial interface or operated in standalone mode. Power supply, external encoder, interface and I/Os can be connected with 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 PC based software development environment TMCL-IDE for the Trinamic Motion Control Language TMCL™ can be downloaded free of charge from the TRINAMIC website.

MAIN CHARACTERISTICS

- ELECTRICAL DATA
 - Supply voltage 9V to 51V
- MOTOR DATA
 - flange size 57/60mm | NEMA23/24
- INTERFACE
 - USB, RS485, CAN
 - step&direction interface
 - inputs for ref. & stop switches
 - 4 general purpose I/Os
 - incremental a/b/n encoder interface
- 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 with 1024 ppr.
 - automatic ramp generation in hardware
 - on the fly alteration of motion parameters
- SOFTWARE
 - standalone operation using TMCL or remote controlled operation
 - PC-based (Windows) application development software TMCL-IDE downloadable
 - ready for CANopen
- OTHER
 - RoHS compliant
 - size 60 x 60mm²



| ORDER CODE | DESCRIPTION |
|---------------|--|
| PD57-1-1160 | 0.55 Nm / QMot motor QSH5718-41-28-055 |
| PD57-2-1160 | 1.01 Nm / QMot motor QSH5718-51-28-101 |
| PD60-3-1160 | 2.10 Nm / QMot motor QSH6018-65-28-210 |
| PD60-4-1160 | 3.10 Nm / QMot motor QSH6018-86-28-310 |
| PD-1160-CABLE | Cable loom including all necessary cables (single ended) |