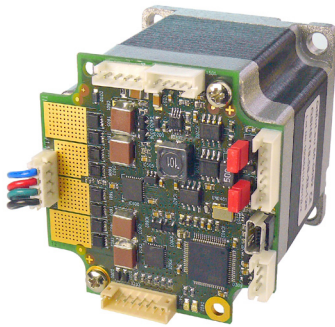




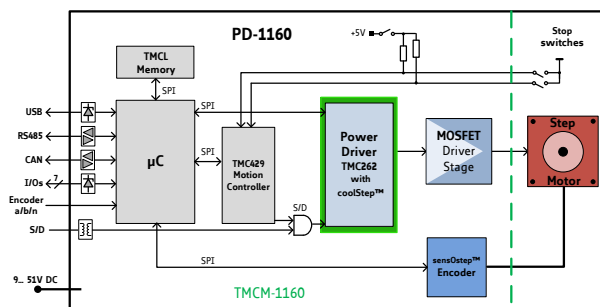
PD-1160

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 controller 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)

