

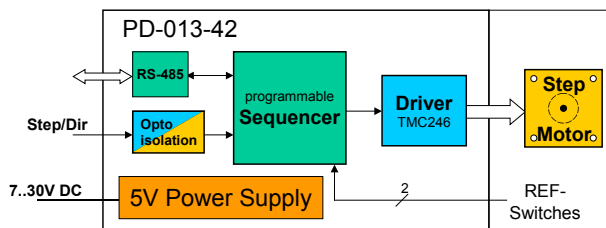
PD-013-42

42mm / NEMA17
Stepper Motor with
Step / Direction Driver

INFO The PD-013-42 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-013-42 offers three motor torques options and can be controlled via an optical isolated Step / Direction interface. The power supply, interface and the multi purpose I/Os can be connected with small JST connectors. The firmware of the module can be updated via the serial interface. With the integrated stallGuard™ feature it is possible to detect overload and stall of the motor.

MAIN CHARACTERISTICS

- ELECTRICAL DATA**
 - 7V to 30V supply voltage
- MOTOR TYPES**
 - motor length: 53 mm / 59 mm / 69 mm: max. torque 0.27Nm / 0.35Nm / 0.49Nm
- INTERFACE**
 - Step / Direction input (5 – 24V signal) with up to 350kHz microstep frequency
 - driver disable input
 - RS485 host interface (optional use / use for parameterization)
 - 2 local inputs for reference switches
- FEATURES**
 - optically isolated inputs for step, direction and disable
 - up to 256 times adjustable microstep resolution
 - adjustable standby current
 - reference move and turn CW / CCW via RS-485
 - stallGuard™ for reference search
- SOFTWARE**
 - ASCII protocol controlled using simple terminal software
- OTHER**
 - pluggable connectors for all signals / cable included
 - RoHS compliant



| ORDER CODE | DESCRIPTION |
|------------|--|
| PD1-013-42 | PANdrive 0.27 Nm with QSH4218-35-10-027 motor and step / direction |
| PD2-013-42 | PANdrive 0.35 Nm with QSH4218-41-10-035 motor and step / direction |
| PD3-013-42 | PANdrive 0.49 Nm with QSH4218-51-10-049 motor and step / direction |