

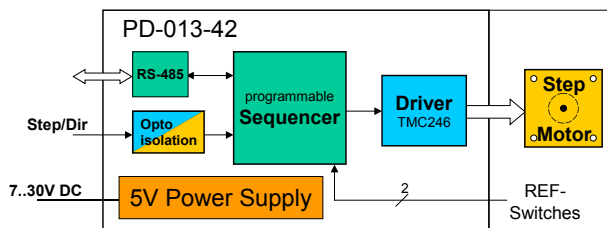
# PD-013-42

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