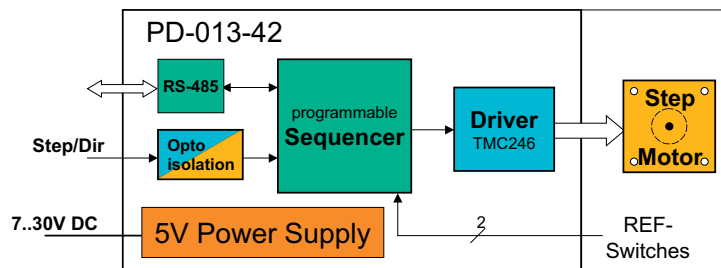


## PD-013-42

### 42mm Stepper Motor with Integrated Step-/Direction Driver

The **PD-013-42** is a full mechatronic solution including a 42mm flange motor (NEMA17). 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.



**Electrical data**

- 7V to 30V supply voltage

**Motor types**

- motor length: 53mm / 59mm / 69mm:  
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 RS485
- StallGuard™ for reference search

**Software**

- ASCII protocol controlled using simple terminal software

**Other**

- pluggable connectors for all signals / cable included
- RoHS compliant latest by 1 July 2006

ORDER CODE	DESCRIPTION
PD1-013-42	PANdrive S/D 0.27 Nm w. mot. QSH4218-35
PD2-013-42	PANdrive S/D 0.35 Nm w. mot. QSH4218-41
PD3-013-42	PANdrive S/D 0.49 Nm w. mot. QSH4218-51

For further detailed information and datasheets please refer to our website <http://www.trinamic.com>.