

UNIMOTION

STDF-A-PD DATASHEET

Description



- Pulse-direction based control
- Closed loop system (errors are corrected)
- No gain tuning / No hunting
- Heat reduction / Torque improvement
- Up to 3000 rpm
- Plug & Play solution with the Unimotion motors
- Brake control
- DIN rail mount (optional)
- RoHS directive
- EMC directive

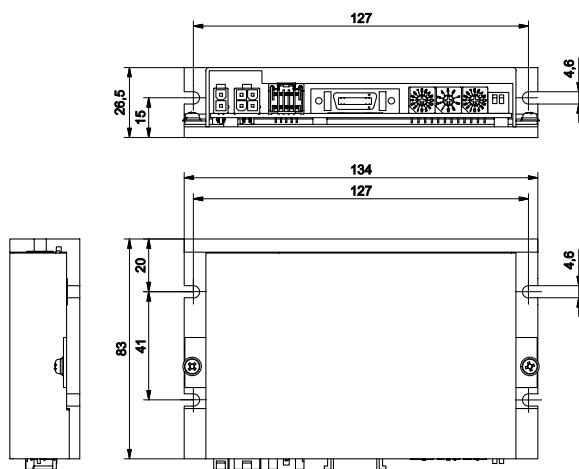
General technical data

PARAMETER	Type	Stepper
	Protocol/control	Pulse-direction control
	Code	STDF-PD
Operating voltage	[V DC]	24 ± 10 %
Current consumption ¹	[mA]	max. 500
Rotational speed	[rpm]	0 ~ 3000
Supported resolution ²	[ppr]	500, 1000, 1600, 2000, 3600, 5000, 7200, 10000
Input signals		Position command pulse
		Servo on/off
		Alarm reset (Photocoupler input)
		In-position
Output signals		Alarm (Photocoupler output)
		Encoder signal, brake
Ambient temperature	[°C]	0 ~ +50
Ambient humidity	[%]	35 ~ 80 (non-condensing)
Vibration resistance	[G]	0,5
Duty cycle	[%]	100

¹ Except the motor current

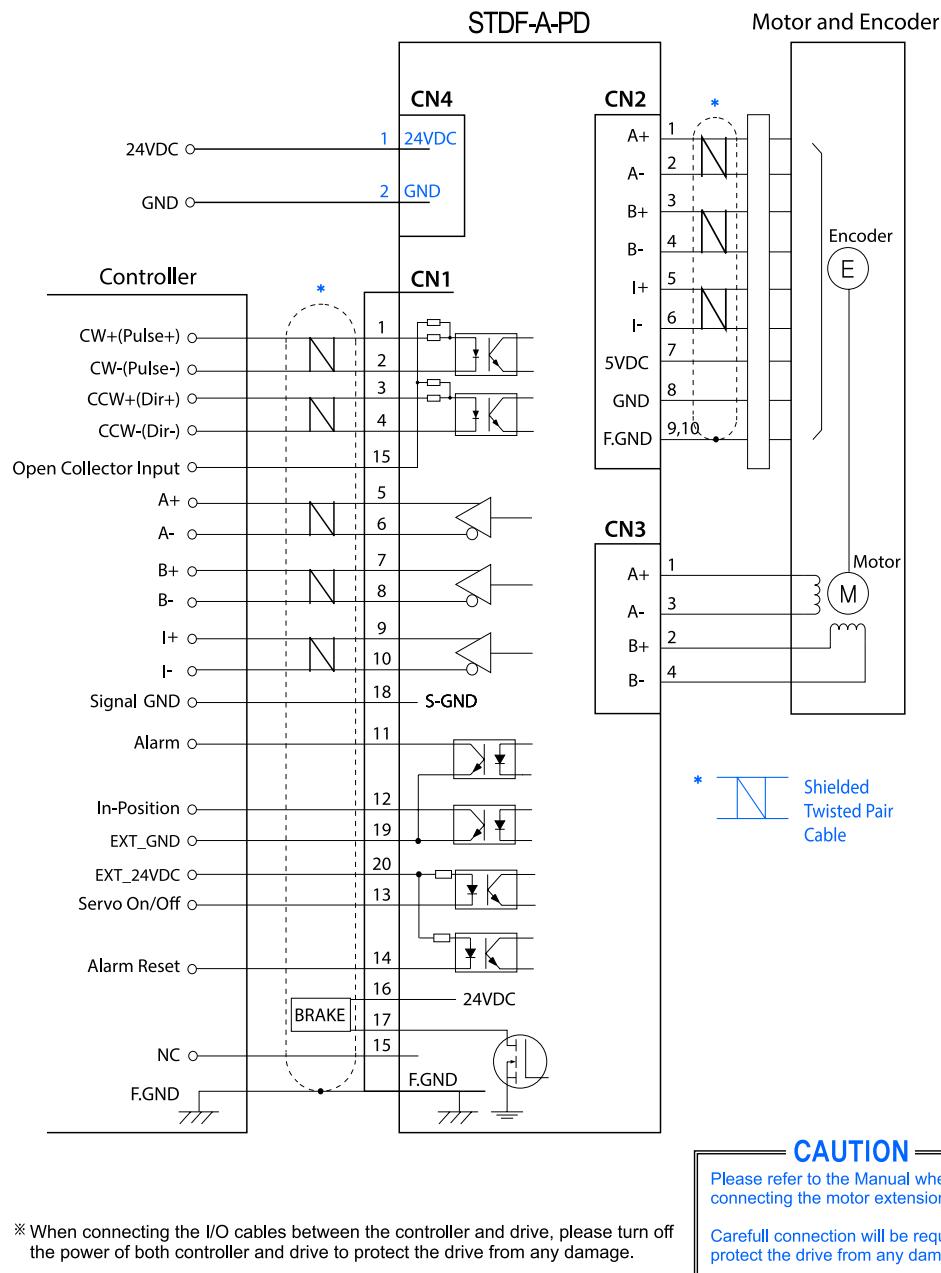
² For the case that resolution is higher than the encoder's resolution, the motor shall operate by micro-step between pulses

Dimensions



i All dimensions are in mm.
The scale of the drawings
may not be equal.

External wiring diagram



※ When connecting the I/O cables between the controller and drive, please turn off the power of both controller and drive to protect the drive from any damage.