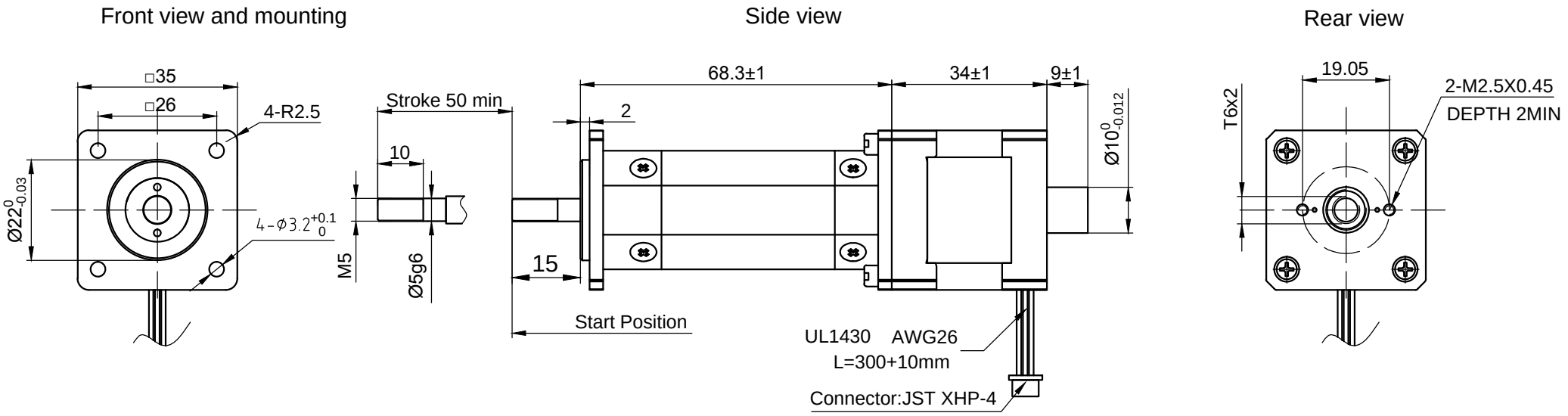


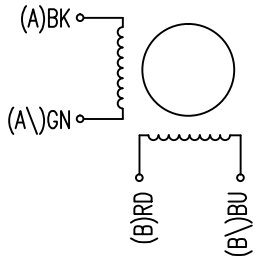
SPECIFICATION	
AMPS/PHASE	1.2
RESISTANCE/PHASE (Ohms)@25°C	1.85±15%
INDUCTANCE/PHASE (mH) @1KHz	2.0±20%
SPINDLE PITCH (mm) [in]	5 [0.197]
THRUST (N) [lbf]	85
RESOLUTION (mm/FULLSTEP)	0.025
MAX. SPEED (mm/sec.) AT 48V	250
MAX. SPEED WITH MAX. THRUST (mm/sec.) AT 48V	14
WEIGHT (Kg) [lb]	0.2[0.44]
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)	
AMBIENT TEMPERATURE −10°~ 50°C [14°F ~ 122°F]	
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	
INSULATION CLASS B 130° [266°F]	
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	

Please regard the application note at www.nanotec.com for further informations.

Shaft play is adjustable at the motor.

TYPE OF CONNECTION (EXTERN)		MOTOR	
PIN NO	BIPOLAR	LEADS	WINDING
1	A —	BK	A
2	A\ —	GN	A\
3	B —	RD	B
4	B\ —	BU	B\

WIRING DIAGRAM



FULL STEP 2 PHASE−Ex.,
WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\		CCW
1	+	+	−	−		
2	−	+	+	−		
3	−	−	+	+		
4	+	−	−	+	CW	

REV	DESCRIPTION	DATE	APVD

Nanotec® PLUG & DRIVE

L3518S1204−T5x5−A50

SCALE FREE		APVD	G.S.	27.11.13
X	±0.5	CHKD	GYQ	27.11.13
1PL	±0.2	DRN	L B	27.11.13
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

LINEAR MOTOR

DWG.NO

L3518S1204−T5x5−A50