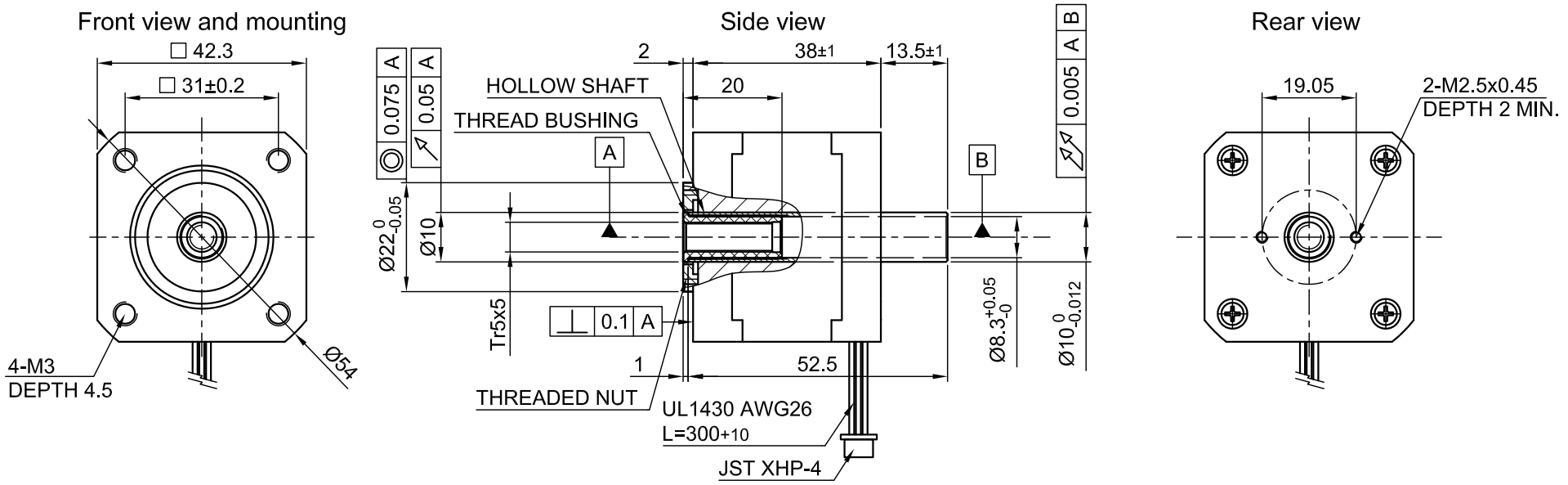


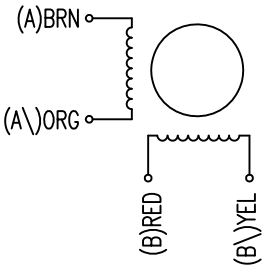
SPECIFICATION		
AMPS/PHASE	1.8	
RESISTANCE/PHASE (Ohms)@25°C	1.1±15%	
INDUCTANCE/PHASE (mH) @1KHz	1.85±20%	
SPINDLE PITCH (mm) [in]	5 [0.197]	
TRUST (N) [lbf]	150 [22.48]	⚠1
RESOLUTION (mm/STEP)	0.025	
STATIC TRUST (N) [lbf] (NO CURRENT)	35	⚠1
MAX. SPEED (mm/sec.) AT 48V	250	⚠1
MAX. SPEED WITH MAX. TRUST (mm/sec.) AT 48V	100	⚠1
WEIGHT (Kg) [lb]	0.24 [0.53]	
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 noten at ⚠1
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 —	BRN	A
2	A\ —	ORG	A\
3	B —	RED	B
4	B\ —	YEL	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
1	NEW VALUES AND NOTE	06.05.10	J.W.

Nanotec® PLUG & DRIVE

L4118M1804−T5x5

SCALE FREE		APVD	S.H.	04.06.09
X	±0.5	CHKD		
1PL	±0.2	DRN	J.W.	04.06.09
2PL	±0.1	SIGNATURE		DATE
ANGLE	±30'			

LINEAR ACTUATOR

DWG.NO
L4118M1804−T5x5