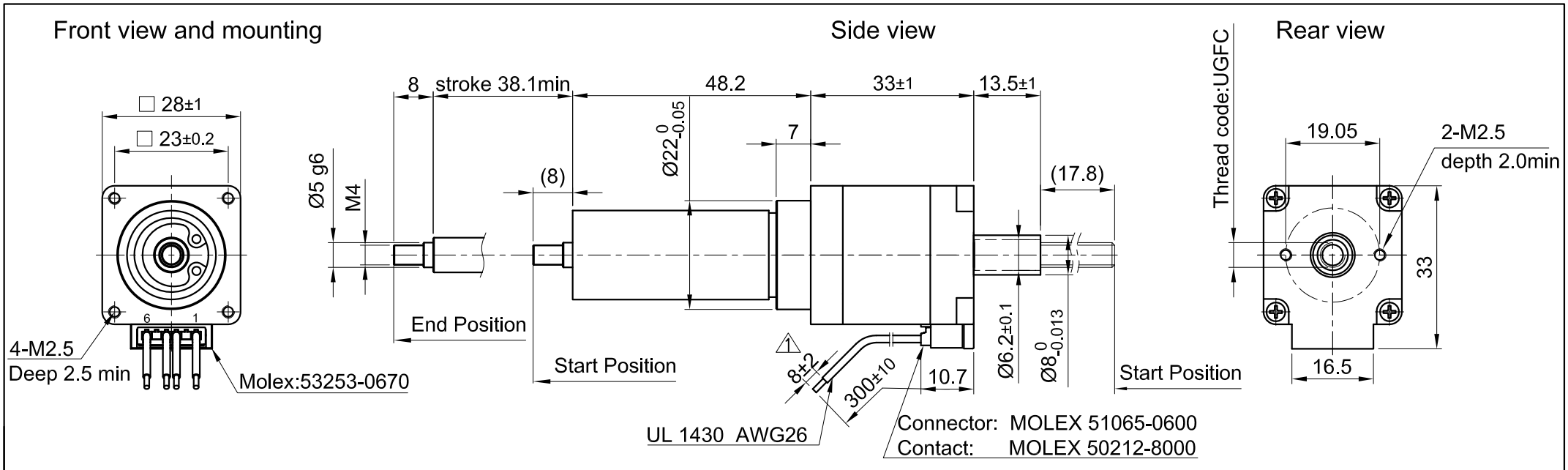


SPECIFICATION \ CONNECTION	BIPOLAR
AMPS/PHASE	1.0
RESISTANCE/PHASE (Ohms)@25°C	2.7±15%
INDUCTANCE/PHASE (mH) @1KHz	2.5±20%
THREAD DIAMETER (mm) [in] 1	4.7625 [0.1875]
THREAD LEAD(mm) [in] 1	5.08 [0.20]
THRUST (N) [lbf]	50 [11.25]
RESOLUTION (mm/STEP)	0.0254
MAX. SPEED (mm/sec.) AT 24V 1	120
WEIGHT (Kg) [lb]	0.15 [0.33]

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)

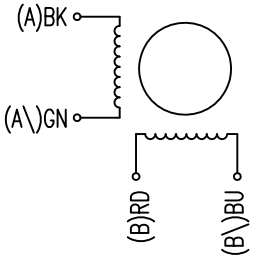
Please regard the application note at www.nanotec.com for further informations.

2

TYPE OF CONNECTION (EXTERN)	MOTOR		
BIPOLAR	CONNECTOR PIN NO.	LEADS	WINDING
A —	1	BK	A
A\ —	3	GN	A\
B —	4	RD	B
B\ —	6	BU	B\

1

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
2	Remove shaft play adjustable	11.03.19	X T
1	–	16.10.18	X T
A	–	20.06.18	X T

Nanotec® PLUG & DRIVE

Surface specification DIN ISO 1302	General tolerances DIN ISO 2768-CH	Work piece edge DIN ISO 13715

APVD	P.R.	26.02.18
CHKD	GYQ	26.02.18
DRN	X T	26.02.18
SIGNATURE		DATE

LINEAR ACTUATOR

DWG.NO LGA281S10–B–UGFC–038