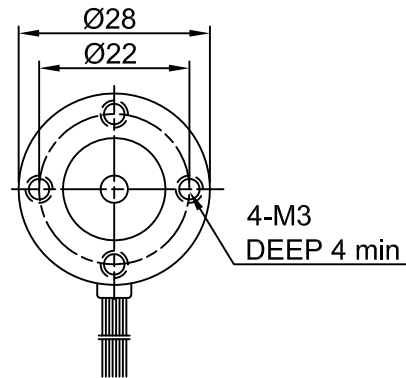
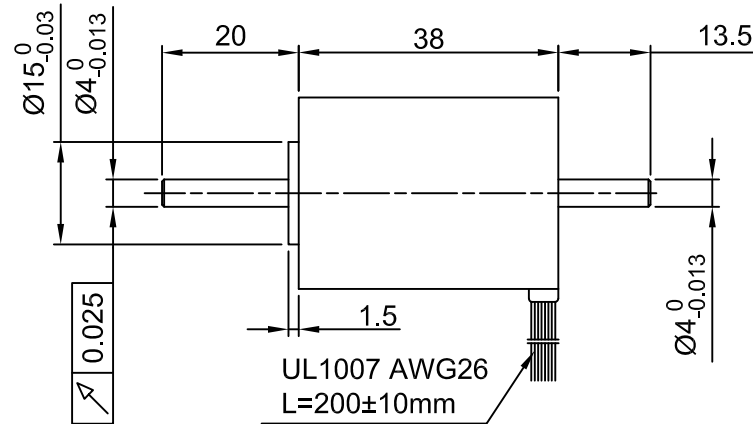


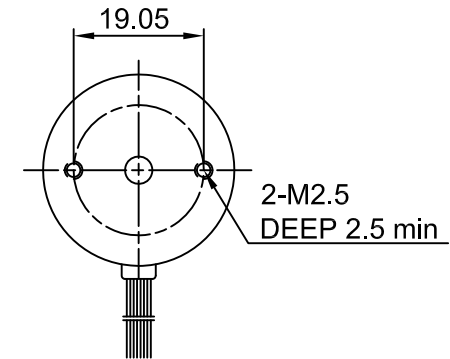
Front view and mounting



Side view

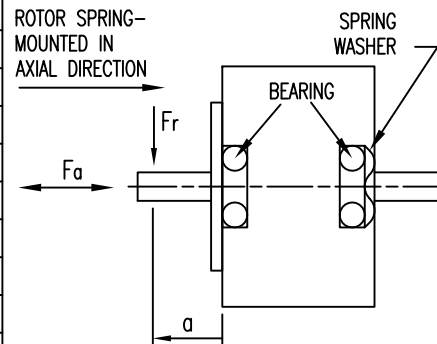


Rear view



SPECIFICATION	CONNECTION	STAR
NO OF POLES/PHASE	4/3	
VOLTAGE RATED (VDC)	24	
CURRENT NO LOAD/RATED/PEAK (AMP)	0.15/0.88/2.8	
RESISTANCE/PHASE TO PHASE (Ohms) @25°C	4.63±15%	
INDUCTANCE/PHASE TO PHASE (mH) @1KHz	1.6±20%	
TORQUE RATED/PEAK (Nm) [lb-in]	0.014/0.042 [0.125/0.375]	
TORQUE CONSTANT (Nm/A)	0.016	
POWER RATED/PEAK (W)	14/40	
SPEED RATED/NO LOAD (RPM)	10000/15000	
ROTOR INERTIA (Kg-m ²) [lb-in ²]	2.12x10 ⁻⁷ [7.241x10 ⁻⁴]	
WEIGHT (Kg) [lb]	0.082 [0.18]	
TEMPERATURE RISE: MAX.80°C		
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)		

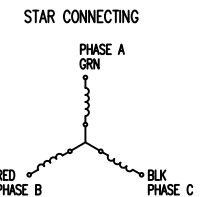
PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE F_a (N)	$F_a=10$	
DISTANCE a (mm)	10	
RADIAL-FORCE F_r (N)	15	
	AXIAL	RADIAL
SHAFT PLAY (mm)	0.08	0.02
AT LOAD MAX: (N)	4.5	4.5

WIRING DIAGRAM

	PIN	COLOR	FUNCTION	Dir. →					
MOTOR 4 POL.	6	GRN	U	X	HI	HI	X	LOW	LOW
	7	RED	V	HI	X	LOW	LOW	X	HI
	8	BLK	W	LOW	LOW	X	HI	HI	X
HALL 12 IMPL. REV.	1	YEL	+5V						
	2	BLU	H1	0	0	0	1	1	1
	3	ORG	H2	0	1	1	1	0	0
	4	BRN	H3	1	1	0	0	0	1
	5	WHT	GND						
ENCODER (OPTION)	6	YEL	A						
	7	BRN	A\						
	8	GRY	B						
	9	GRY/PINK	B\						
	10	VIOLET	I						
	11	RED/BLU	I\						



				NANOTEC: DB28M01	SCALE FREE	APVD	B.W.	23.05.07	BRUSHLESS DC MOTOR
					X ±0.5 1PL ±0.2 2PL ±0.1 ANGLE ±30'	CHKD			
1	INDUCTANCE	22.06.07	J.W.			DRN	J.W.	23.05.07	DWG.NO
REV	DESCRIPTION	DATE	APVD			SIGNATURE		DATE	DB28M01