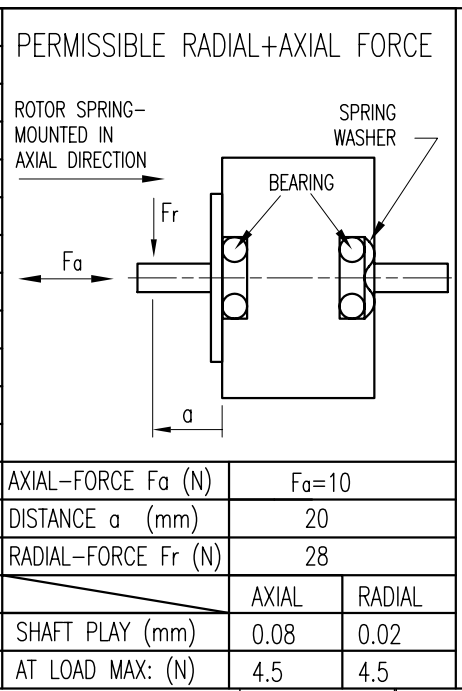


SPECIFICATION	CONNECTION	DELTA
NO. OF POL./PHASE		8/3
VOLTAGE RATED (VDC)		24
CURRENT NO LOAD/RATED/PEAK (AMP)		0.2/1.79/5.4
RESISTANCE/PHASE TO PHASE (Ohms) @25°C		1.5±15%
INDUCTANCE/PHASE TO PHASE (mH) @1KHz		2.1±20%
TORQUE RATED/PEAK (Nm) [lb-in]		0.0625/0.19 [0.553/1.68]
TORQUE/VOLTAGE CONSTANT (Nm/A)/(Vrms/KRPM)		0.034/2.78=BACK EMF
POWER RATED (W)		26
SPEED RATED/NO LOAD (U/min)		4000/6200
ROTOR INERTIA (Kg-m ²) [lb-in ²]		2.4x10 ⁻⁶ [8.2x10 ⁻³]
WEIGHT (Kg) [lb]		0.3 [0.661]
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)		



WIRING DIAGRAM										
	PIN	COLOR	FUNCTION	Dir. ← →					LEAD GAUGE	
MOTOR 8 POL.	6	YEL	U	X	HI	HI	X	LOW	LOW	UL1007 AWG20
	7	RED	V	HI	X	LOW	LOW	X	HI	
	8	BLK	W	LOW	LOW	X	HI	HI	X	
HALL 24 IMPL. REV.	1	RED	+5V							UL1007 AWG26
	2	BLU	H1	0	0	0	1	1	1	
	3	WHT	H2	0	1	1	1	0	0	
	4	GRN	H3	1	1	0	0	0	1	
	5	BLK	GND							
ENCODER	6	YEL	A	DELTA CONNECTING PHASE A YEL PHASE B RED PHASE C BLK						
	7	BRN	A\							
	8	GRY	B							
	9	GRY/PINK	B\							
	10	VIOLET	I							
	11	RED/BLU	I\							

NANOTEC:				SCALE FREE	APVD	<i>S.Ha.</i>	19.06.07	BRUSHLESS DC MOTOR	
DB42S03				X ±0.5	CHKD				
REV	DESCRIPTION	DATE	APVD	1PL ±0.2	DRN	<i>J.W.</i>	14.05.07	DWG.NO	DB42S03
				2PL ±0.1	SIGNATURE		DATE		
				ANGLE ±30'					