



CONNECTION		BIPOLAR PARALLEL	PERMISSIBLE RADIAL+AXIAL FORCE				CABLE MOTOR		M16 ENCODER		
SPECIFICATION							No.	ASSIGNMENT	No.	COLOR	ASSIGNMENT
VOLTAGE (VDC)		2.1	AXIAL-FORCE $F_a$ (N)				1	A	1	WHT	A
AMPS/PHASE		6.36	DISTANCE $a$ (mm)				2	A\	2	BRN	A\
RESISTANCE/PHASE (Ohms)@25°C		0.33±15%	RADIAL-FORCE $F_r$ (N)				3	B	3	GRN	B
INDUCTANCE/PHASE (mH) @1KHz		3.0±20%	SHAFT PLAY (mm)				4	B\	4	YEL	B\
HOLDING TORQUE (Nm) [lb-in]		5.94 [52.57]	AT LOAD MAX: (N)				5	GND/YEL-GRN	5	GRY	GND
DETENT TORQUE (Nm) [lb-in]		0.21 [1.8585]	SCALE FREE				HOUSING	GND/SHIELDING	6	PINK	I
STEP ANGLE (°) ± STEP ACCURACY		1.8 ± 5% (NON-ACCUM)	APVD						7	BLU	I\
BACK-EMF (V) (300 U/min)		23.15	S.H.a.						8	RED	Vcc
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		3.0x10 <sup>-4</sup> [1.025]	13.11.08				<b>STEPPER MOTOR IN PROTECTION</b> DWG.NO AP8918M6404-E				
WEIGHT (Kg) [lb]		3.5 [7.72]	CHKD								
TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)			DRN								
AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]			SIGNATURE								
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)			DATE								
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)											
			 <b>Nanotec</b> PLUG & DRIVE		X ±0.5		APVD		AP8918M6404-E		
					1PL ±0.2		S.H.a.				
1	RESTRICTION SUP.+EMF+WEIGHT	18.02.10	J.W.	2PL ±0.1		13.11.08					
REV	DESCRIPTION	DATE	APVD	ANGLE ±30'							