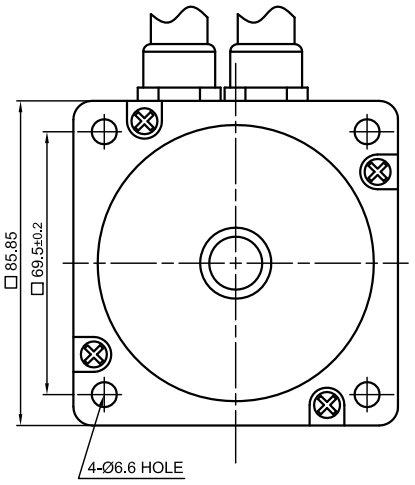
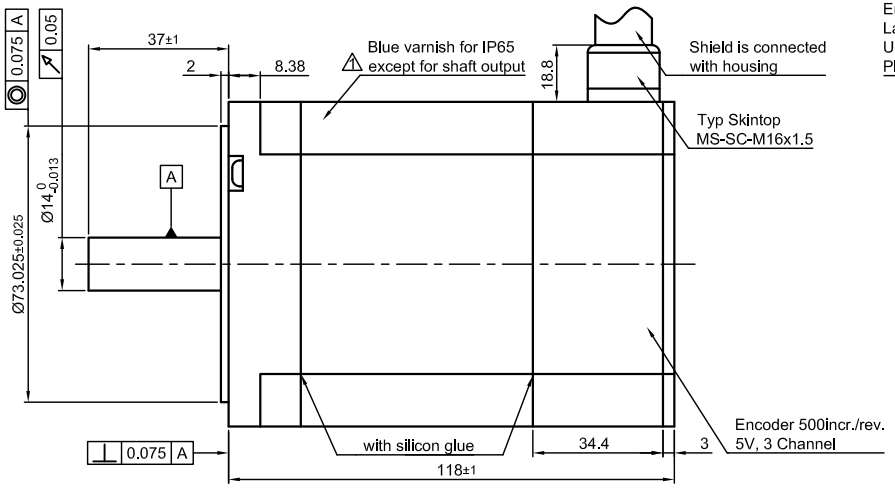
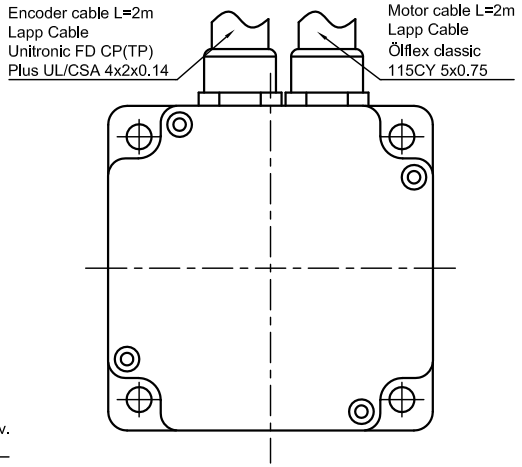
Front view and mounting



Side view



Rear view



SPECIFICATION \ CONNECTION	BIPOLAR PARALLEL
VOLTAGE (VDC)	2.1
AMPS/PHASE	6.36
RESISTANCE/PHASE (Ohms)@25°C	0.33±15%
INDUCTANCE/PHASE (mH) @1KHz	3.0±20%
HOLDING TORQUE (Nm) [lb-in]	5.94 [52.57]
DETENT TORQUE (Nm) [lb-in]	0.21 [1.8585]
STEP ANGLE (°) ± STEP ACCURACY	1.8 ± 5% (NON-ACCUM)
BACK-EMF (V) (300 U/min)	23.15 ⚠1
ROTOR INERTIA (Kg-m²) [lb-in²]	3.0x10⁻⁴ [1.025]
WEIGHT (Kg) [lb]	3.5 [7.72] ⚠1

TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED)

AMBIENT TEMPERATURE -10°~ 50°C [14°F ~ 122°F]

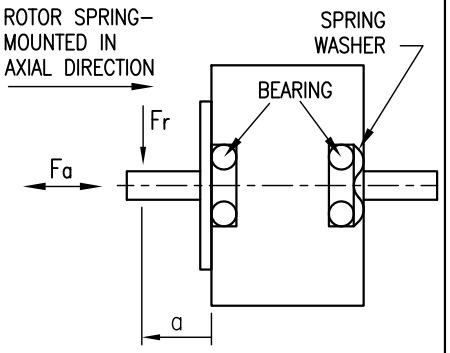
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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)

PERMISSIBLE RADIAL+AXIAL FORCE



AXIAL-FORCE Fa (N)	Fa=65			
DISTANCE a (mm)	5	10	15	20
RADIAL-FORCE Fr (N)	535	355	256	200

	AXIAL	RADIAL
SHAFT PLAY (mm)	0.075	0.025
AT LOAD MAX: (N)	10	5.0

CABLE MOTOR	
No.	ASSIGNMENt
1	A
2	A\
3	B
4	B\
5	GND/YEL-GRN
HOUSING	GND/SHIELDING

M16 ENCODER		
No.	COLOR	ASSIGNMENT
1	WHT	A
2	BRN	A\
3	GRN	B
4	YEL	B\
5	GRY	GND
6	PINK	I
7	BLU	I\
8	RED	Vcc

REV	DESCRIPTION	DATE	APVD
1	RESTRICTION SUP.+EMF+WEIGHT	18.02.10	J.W.

Nanotec® PLUG & DRIVE

AP8918M6404-E

SCALE FREE	
X	±0.5
1PL	±0.2
2PL	±0.1
ANGLE	±30'

APVD	S.Ha.	13.11.08
CHKD		
DRN	J.W.	13.11.08
SIGNATURE		DATE

STEPPER MOTOR IN PROTECTION

DWG.NO

AP8918M6404-E