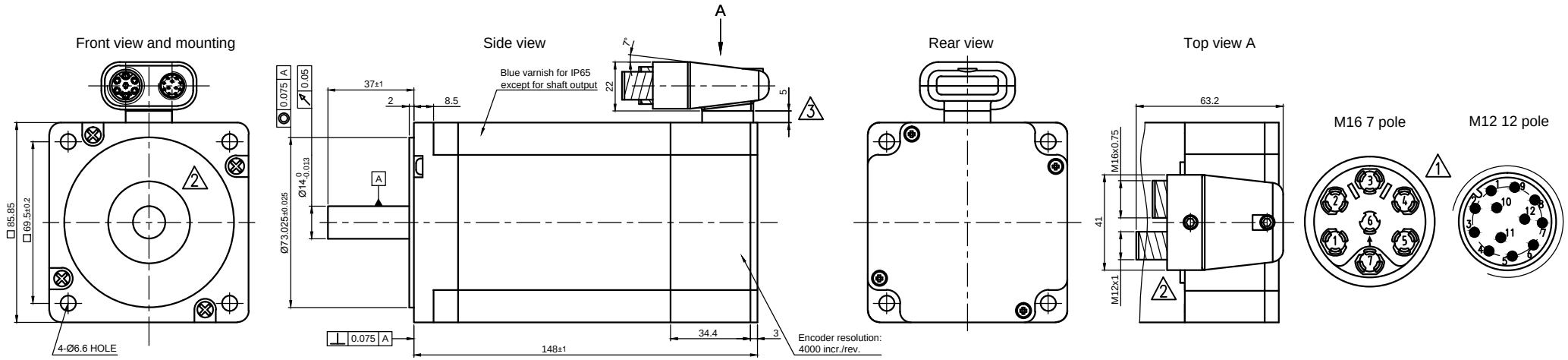


CONNECTION / SPECIFICATION	BIPOLAR PARALLEL
VOLTAGE (VDC)	2.18
AMPS/PHASE	9.5
RESISTANCE/PHASE (Ohms)@25°C	0.26±15%
INDUCTANCE/PHASE (mH) @1KHz	2.7±20%
HOLDING TORQUE (Nm) [lb-in]	9.33 [82.57]
DETENT TORQUE (Nm) [lb-in]	0.20 [1.7]
STEP ANGLE (°)	1.8
STEP ACCURACY (NON-ACCUM)	±5%
ROTOR INERTIA ($Kg-m^2$) [$lb-in^2$]	$3.0x10^{-4}$ [1.025]
WEIGHT (Kg) [lb]	4.35 [9.59]

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

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

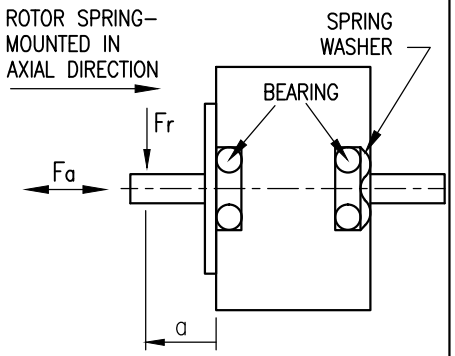
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)

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

M12-12 pole Encoder	
PIN NO.	ASSIGNMENT
1	A
2	A\
3	B
4	B\
5	GND
6	I\
7	I
8	Vcc (24V)
9	NC
10	NC
11	NC
12	NC
HOUSING	GND/SHIELDING

M16-7 pole Motor	
PIN. NO.	ASSIGNMENT
1	A\
2	A
3	B
4	B\
5	NC
6	NC
7	HOUSING

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
03	ADD A BASE FOR CONNECTOR	27.02.13	GYQ
02	REMOVE 13.3+BIG SHAFT HOLE	06.02.13	GYQ
04	NEW MOTOR NAME	08.02.14	GYQ

Nanotec PLUG & DRIVE

AS8918L9504-E24 ④

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

APVD	G.S.	03.09.12
CHKD		
DRN	J.W.	03.09.12
SIGNATURE		DATE

STEPPER MOTOR IN PROTECTION

DWG.NO

AS8918L9504-E24 ④