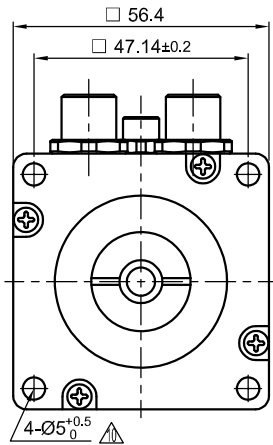
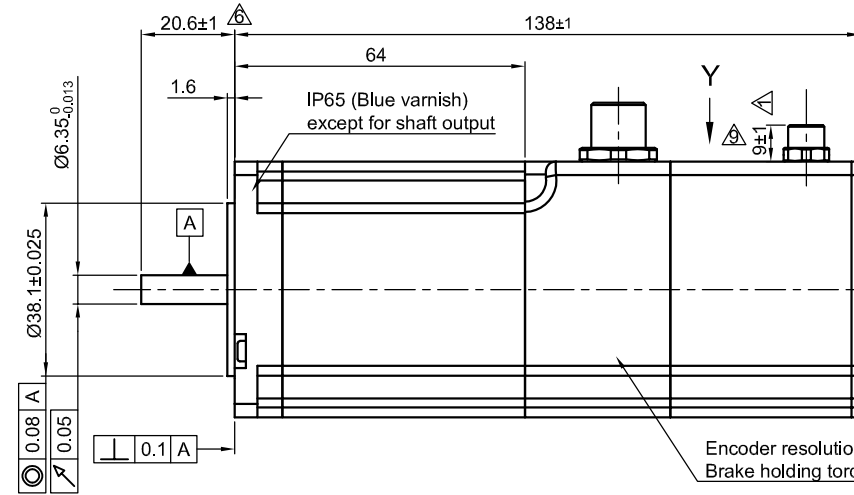


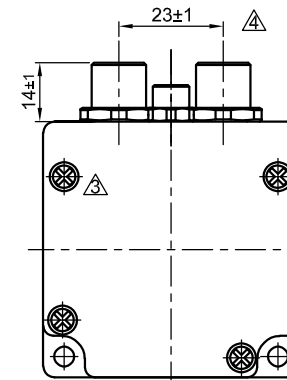
Front view and mounting



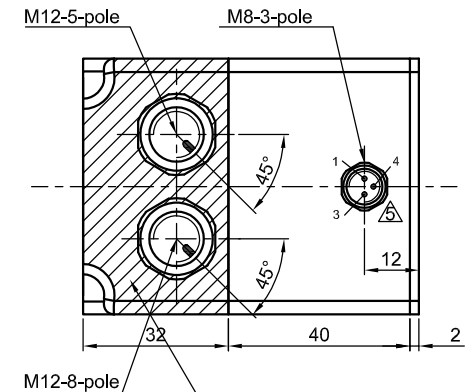
Side view



Rear view



Top view Y



Attention: An axial pulling of the motor shaft is not permitted and may damage the motor.

\*Temperature on marked area must not exceed 80°C. From 50°C to 80°C follow derating curve

SPECIFICATION	CONNECTION	BIPOLAR	PARALLEL
VOLTAGE (VDC)		2.4	
AMPS/PHASE		4.2	*
RESISTANCE/PHASE (Ohms)@25°C		0.58 ± 15%	
INDUCTANCE/PHASE (mH) @1KHz		1.9 ± 20%	
HOLDING TORQUE (Nm) [lb-in]		1.87 [16.52]	
STEP ANGLE (°)		1.8	
ACCURACY(NON-ACCUM)		±5%	
ROTOR INERTIA (Kg-m <sup>2</sup> ) [lb-in <sup>2</sup> ]		4.8 × 10 <sup>-5</sup> [0.164]	
WEIGHT (Kg) [lb]		1.0 [2.2]	

FULL STEP 2 PHASE-Ex., WHEN FACING MOUNTING END (X)

STEP	A	B	A\	B\	CCW	CW
1	+	+	-	-	↑	↓
2	-	+	+	-	↓	↑
3	-	-	+	+	↓	↑
4	+	-	-	+	↑	↓

\* Current derating

PERMISSIBLE RADIAL+AXIAL FORCE

ROTOR SPRING-MOUNTED IN AXIAL DIRECTION

MOTOR M12-5	
Pin	Assignment
1	A\
2	A
3	B
4	B\
5	HOUSING

ENCODER M12-8	
Pin	Assignment
1	A
2	A\
3	B
4	B\
5	GND
6	I\
7	I
8	Vcc (24V)

BRAKE M8-3	
Pin	Assignment
1	Brake
3	Brake/GND
4	NC

TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED) *	AXIAL-FORCE Fa (N)	Fa=15
AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F] *	DISTANCE a (mm)	5   10   15   20
INSULATION RESISTANCE 100 MOhm (UNDER NORMAL TEMPERATURE AND HUMIDITY)	RADIAL-FORCE Fr (N)	130   90   70   52
INSULATION CLASS B 130° [266°F]		AXIAL $\Delta$   RADIAL
DIELECTRIC STRENGTH 500VAC FOR 1 MIN. (BETWEEN THE MOTOR COILS AND THE MOTOR CASE)	SHAFT PLAY MAX (mm)	-0.03   0.02
AMBIENT HUMIDITY MAX. 85% (NO CONDENSATION)	AT LOAD: (N)	200   4.5

10	NEW RESISTANCE	18.07.17	GYQ
9	M8 HEIGHT TOLERANCE	28.10.16	GYQ
8	NEW HOLDING TORQUE	09.08.16	GYQ
REV	DESCRIPTION	DATE	DRN

**Nanotec**<sup>®</sup>  
PLUG & DRIVE

Surface specification DIN ISO 1302

General tolerances DIN ISO 2768-cH

Work piece edge DIN ISO 13715

APVD	G.S.	10.12.15
CHKD	L B	09.10.11
DRN	GYQ	09.10.11
SIGNATURE		DATE

**STEPPER MOTOR IN PROTECTION**

DWG.NO AS5918L4204-ENM24B