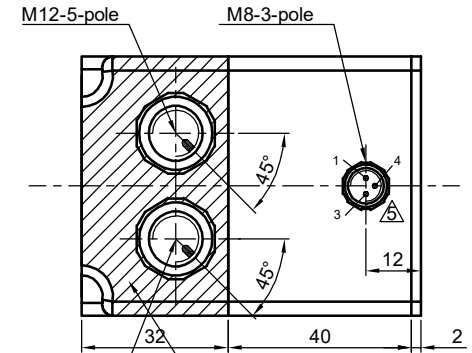
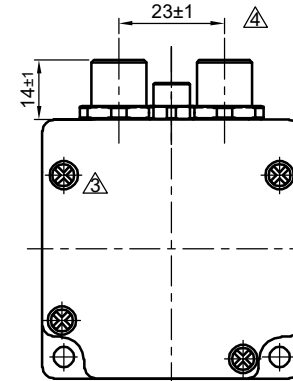
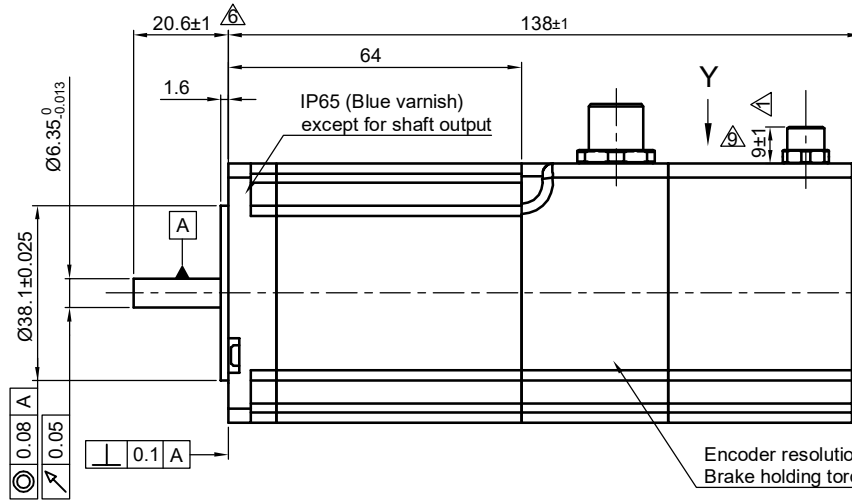
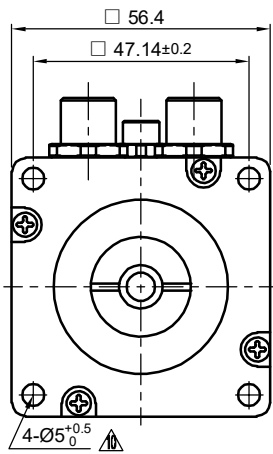


Front view and mounting

Side view

Rear view

Top view Y



Encoder resolution: 1024 incr./rev. Δ
 Brake holding torque: 1.0 Nm

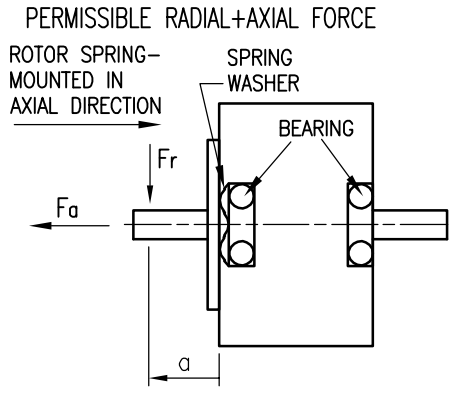
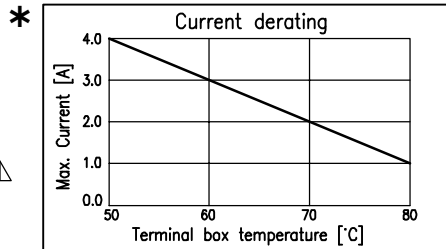
*Temperature on marked area must not exceed 80°C.
 From 50°C to 80°C follow derating curve Δ

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

SPECIFICATION	CONNECTION	BIPOLAR
VOLTAGE (VDC)		2.4 Δ
AMPS/PHASE		4.2 * Δ
RESISTANCE/PHASE (Ohms)@25°C		0.58±15% Δ
INDUCTANCE/PHASE (mH) @1KHz		1.9±20% Δ
HOLDING TORQUE (Nm) [lb-in]		1.87 [16.52] Δ
STEP ANGLE (°)		1.8 Δ
ACCURACY(NON-ACCUM)		±5% Δ
ROTOR INERTIA (Kg-m ²) [lb-in ²]		50.4x10 ⁻⁶ [0.172] Δ
WEIGHT (Kg) [lb]		1.37 [3.02] Δ

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

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



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±10%)

BRAKE M8-3

Pin	Assignment
1	24-48V(±5%) Δ
3	GND Δ
4	NC Δ

TEMPERATURE RISE: MAX.80°C (MOTOR STANDSTILL; FOR 2 PHASE ENERGIZED) * Δ	AXIAL-FORCE Fa (N)	Fa=15
AMBIENT TEMPERATURE -10~ 50°C [14°F ~ 122°F] * Δ	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 Δ 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

11	UPDATE VALUES AND TOLERANCE	13.11.20	L W	 Nanotec PLUG & DRIVE	APVD	G.S.	10.12.15
10	NEW RESISTNACE	18.07.17	GYQ		CHKD	L B	09.10.11
9	M8 HEIGHT TOLERANCE	28.10.16	GYQ	Surface specification DIN ISO 1302	DRN	GYQ	09.10.11
REV	DESCRIPTION	DATE	DRN	General tolerances DIN ISO 2768-cH		SIGNATURE	DATE
				Work piece edge DIN ISO 13715			

STEPPER MOTOR IN PROTECTION

DWG.NO AS5918L4204-ENM24B