

## ENGODER IN STEP







### **Key Specifications**



Hybrid stepper motor



Encoder inside, resolution 8,192 ppr to 16,384 ppr



Durable design



Suitable for a range of applications

### **Application Examples**



CNC machines



Automation



Medical devices



Additive Manufacturing



Dispensing devices



Position required



# 3557EP

## ENGODER IN STEP





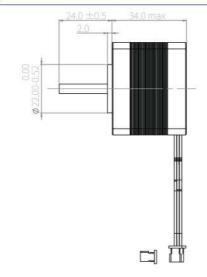


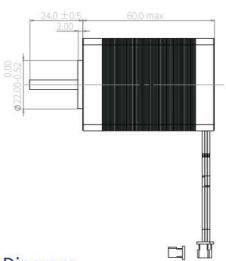


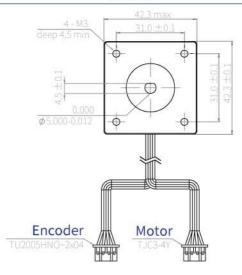
**42** mm sq.

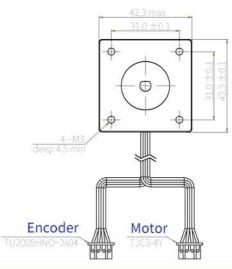
423409:34mm 426009:60mm

Part number	Holding torque	Step angle	Detent torque	Rated Current	Phase resistance	Phase inductance	Insulation resistance	Rotor inertia	Weight
86STEP-423409	280mN.m	0.9°	12mN.m	0.75A	10 Ω±10%	15mH±20%	100MΩmin. (500V DC)	39g.cm <sup>2</sup>	0.2 kg
86STEP-426009	860mN.m	0.9°	20mN.m	1.50A	3.5 Ω±10%	9mH±20%	100MΩmin. (500V DC)	102g.cm <sup>2</sup>	0.45 kg

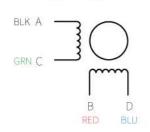




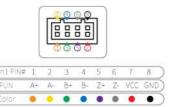




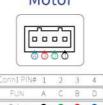
#### Wiring Diagram



#### Encoder



#### Motor



#### Uni-polarfull step

Excitation sequence and direction of

	100	3.7417		
PHASE	A	В	C	D
1	+	+	3	160
2	i.e	+	#	180
3	-	-	94	141
4	+			+

seen from the mounting surface, it is clockwise



# 3557EP

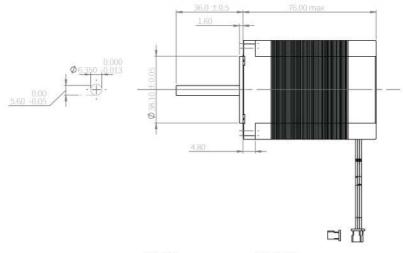
## ENCODER IN STEP

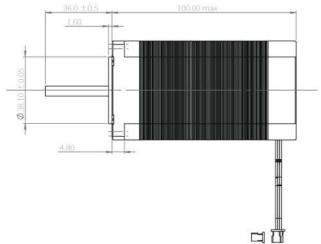


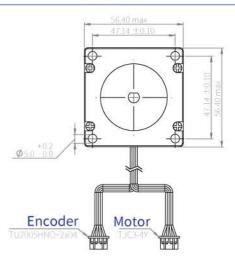
**57** mm sq.

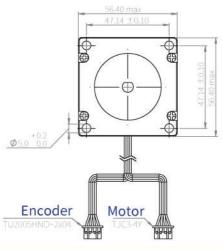
577609 : 76mm 5710009 : 100mm

Part number	Holding torque	Step angle	Detent torque	Rated Current	Phase resistance	Phase inductance	Insulation resistance	Rotor inertia	Weight
86STEP-577609	1800mN.m	0.9°	70mN.m	3.0A	2.0Ω±10%	10mH±20%	100MΩmin. (500V DC)	460g.cm <sup>2</sup>	1.0 kg
86STEP-5710009	2400mN.m	0.9°	100mN.m	4.2A	0.75Ω±10%	2.8mH±20%	100MΩmin. (500V DC)	650g.cm <sup>2</sup>	1.3 kg

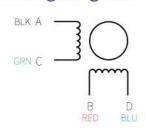




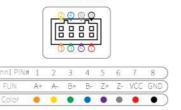




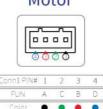
#### Wiring Diagram



#### Encoder



#### Motor

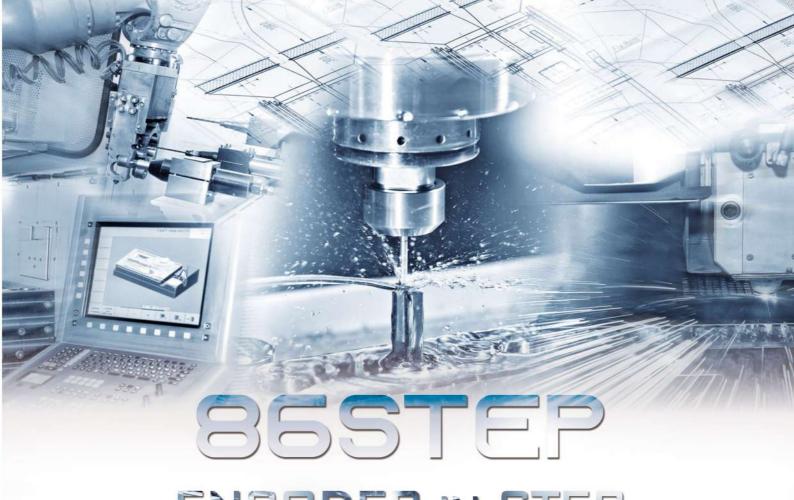


#### Uni-polarfull step

Excitation sequence and direction of rotation

STEP	A	В	C	D
1	+	+	1	Ŧ1,
2	1 =	+	4	±1
3	-	4.1	+	+
4	+	- 5	12	+

seen from the mounting surface it is clockwise



## ENCODER IN STEP



No.15, Wugong 5th Rd. Xinzhuang Dist., New Taipei City, #24890, Taiwan, R.O.C. TEL: 886-2-2298-0770 FAX: 886-2-2299-1883



