

STEP Motor

모터뱅크

모델명 : NK245-02

제품설명

NK245-02 는

STEP Motor 이며 바이폴라 1.8 도 2 상 42 각으로 고정밀과 고토크가 제공되어 3D 용 제어기기에 많이 사용되고 있습니다. 감속기와 드라이버일체형으로 파생되는 기본모터이기도 합니다.

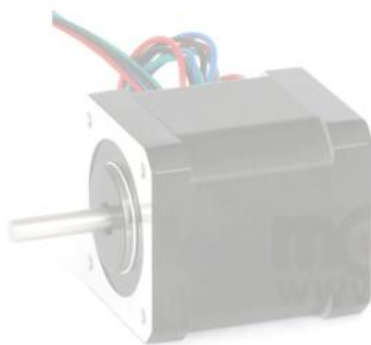


NK245-02 상세구성

- 1) 2상 1.8도 바이폴라 STEP 모터 기본형
- 2) 크기는 42각 이며 1.68A 에 홀딩토크가 431 mHm .
- 3) 감속기구성이 지원되고 드라이버일체형 형태가 지원되는 기본구조.a

SPEC:

42mm 1.8 Deg Bipolar Step Motor



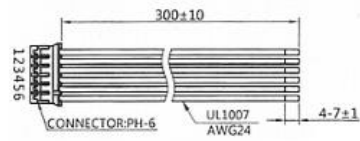
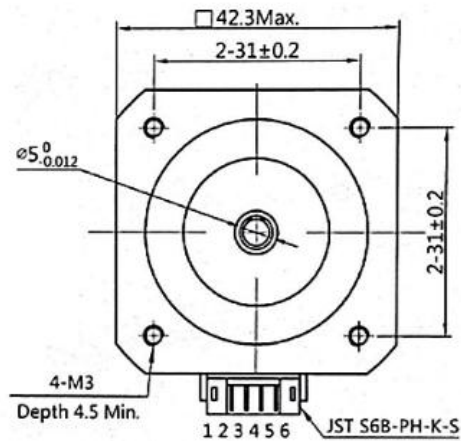
General Specifications

Step Angle Accuracy	±5% (full step, no load)
Resistance Accuracy	±10%
Inductance Accuracy	±20%
Temperature Rise	80°C max. (rated current, 2 phases on)
Ambient Temperature	-20°C ~ +50°C
Insulation Resistance	100MΩ min., 500VDC
Dielectric Strength	500VAC for one minute
Shaft Radial Play	0.02mm max. (450g load)
Shaft Axial Play	0.08mm max. (450g load)
Max. Radial Force	28N (20mm from the flange)
Max. Axial Force	10N

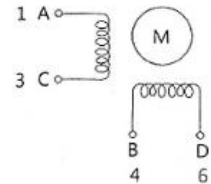
■NK245 스펙(Specifications)

Model Part Number		Voltage V	Current /phase A	Resistance /phase Ω	Inductance /phase mH	Holding Torque mNm	Rotor Inertia gcm ²	Detent Torque gcm	No. of Leads	Length mm	Weight g
Single shaft	Double shaft										
NK245-02	NK245-02-D	2.77	1.68	1.65	2.8	431	68	200	4	48	350

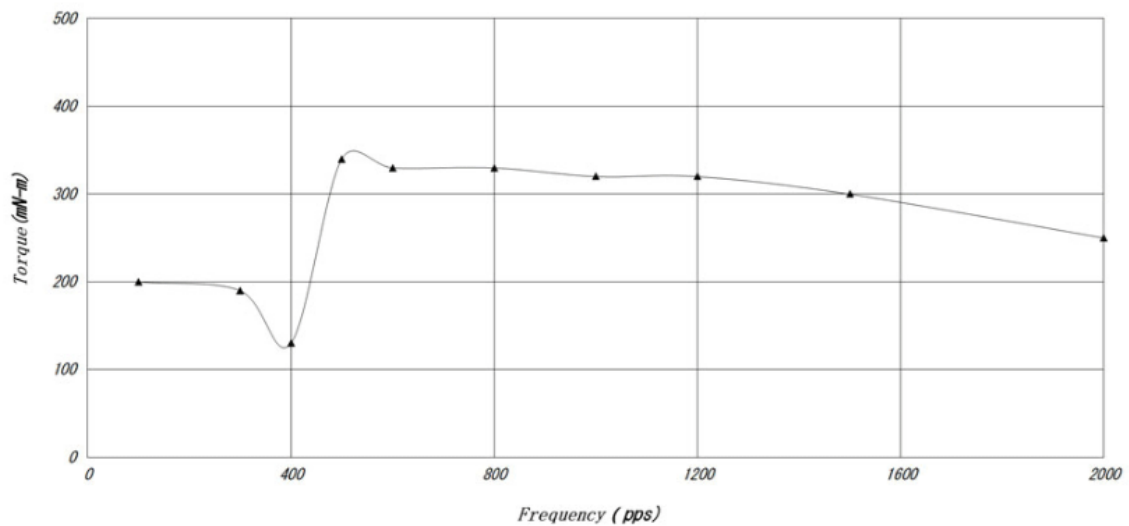
단자구성:



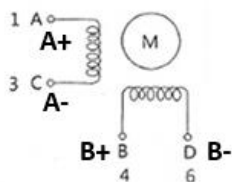
Pin	Color
1	BLACK
2	N/C
3	RED
4	GREEN
5	N/C
6	BLUE



모터특성:



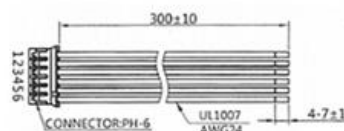
모터제어 Direction:



Exciting Sequence vs.
Direction of Rotation

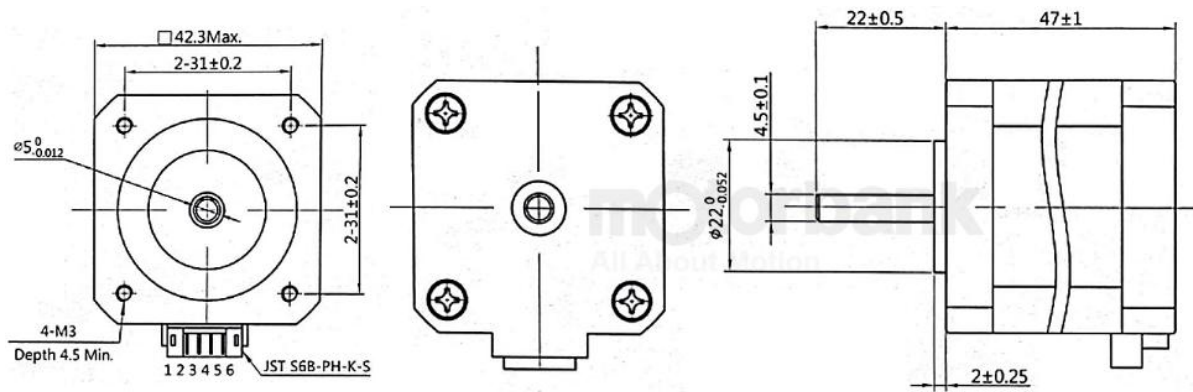
STEP	A	B	C	D	
1	+	+	-	-	CW ↓ CCW ↑
2	-	+	+	-	
3	-	-	+	+	
4	+	-	-	+	

Pin	Color
1	BLACK
2	N/C
3	RED
4	GREEN
5	N/C
6	BLUE



선의 컬러는 변경될수 있습니다

제품치수(Dimension Drawing) :

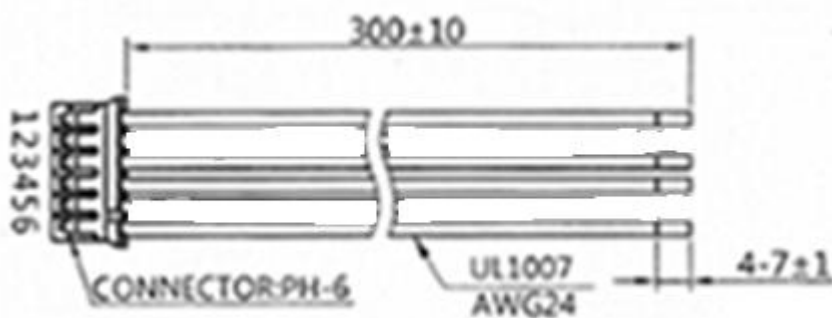


단위 : mm

무게 : about 360 g

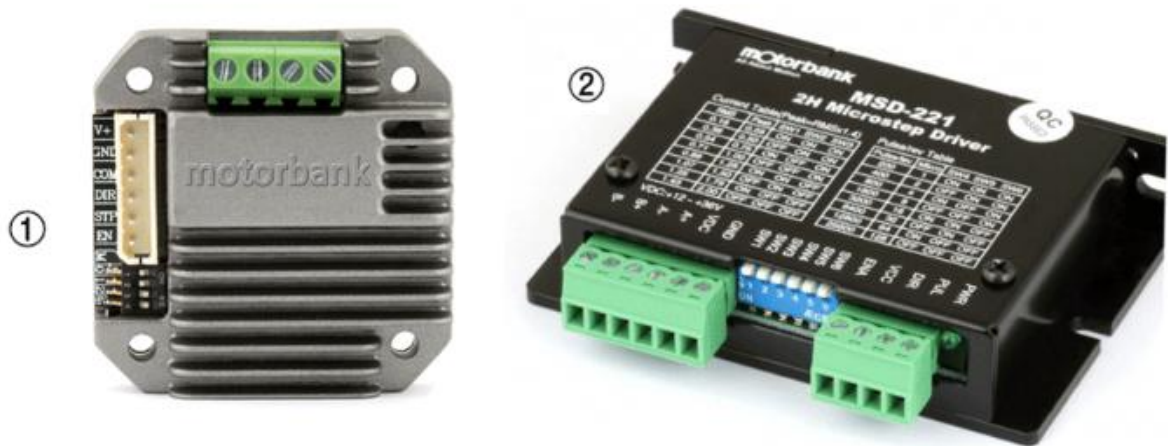
제품구성품(Product Components) :

- 1) 모터(**NK245-02**) : 1개
- 2) 하네스6핀4선 : 1개



호환추천제품구성:

- ① 일체형 42각 2상 스텝모터 드라이버 SBD-10
- ② 2상 스텝모터 드라이버 PID제어 MSD-221



아두이노 제어구성

