

# 42BLY

# BRUSHLESS DC MOTOR



## General Specifications

Winding Type	Star
Hall effect angle	120° Electrical angle
Insulation Class	B
Ambient Temperature	-20°C~+50°C
Insulation Resistance	100MΩ Min.500VC DC
Dielectric Strength	600VAC 1 minute
Max Radial Force	15N (10mm from front flange)
Max Axial Force	10N

## Technical Specifications

Model	No. of Poles	No. of Phase	Rated Voltage (VDC)	Rated Torque (N.m)	Rated Speed (RPM)	Rated Current (Amps)	Output Power (Watts)	Peak Torque (N.m)	Peak Current (Amps)	Torque Constant (N.m/Amps)	Back EMF Constant (V/kRPM)	Motor Height L (mm)	Motor Weight (kg)
42BLY01C	4	3	24	0.035	3000	0.63	11	0.105	1.9	0.054	5.7	42	0.25
42BLY02			24	0.08	3000	1.77	25	0.24	5.3	0.045	4.7	60	0.38
42BLY302-001			24	0.13	3000	2.53	41	0.39	7.6	0.051	5.3	78	0.56

\* Products can be customized by special request.

\* Products can match gearbox 36, 42, 52, 56

## Wiring Diagram

FUNCTION/功能	COLOR/颜色		UL1007 26AWG
+5V	RED	红	
HALL A	YELLOW	黄	UL1007 26AWG
HALL B	GREEN	绿	
HALL C	BLUE	蓝	
GND	BLACK	黑	UL3265 22AWG
PHASE A	YELLOW	黄	
PHASE B	GREEN	绿	
PHASE C	BLUE	蓝	

## Mechanical Dimension

