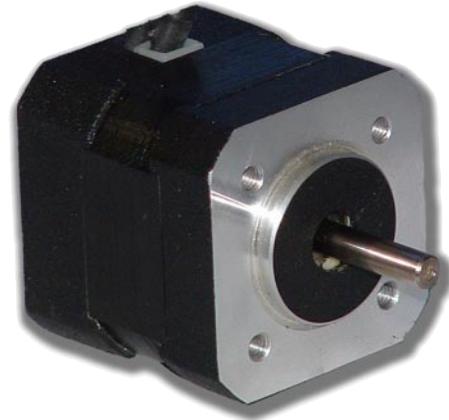


BLY17 Series - Brushless DC Motors



FEATURES

- **NEMA Size 17 BLDC Motors**
- **Compact Size and Power Density**
- **Cost Effective Solution**
- **Long Life and Highly Reliable**
- **Can be Customized for**
 - Maximum Speed
 - Winding Current
 - Shaft Options
 - Cables and Connectors
- **CE Certified and RoHS Compliant**



DESCRIPTION

The BLY17 Series Brushless DC Motors come in a compact package with high power density. These motors are cost effective solutions to many velocity control applications. They come in four different stack lengths to provide you with just the right torque for your application. A number of windings are available off-the-shelf and all motors can be customized to fit your machine requirements. The motors come in a standard 8-lead configuration with three wires for the phases and five wires for the hall sensors. We can also customize the winding to perfectly match your voltage, current, and maximum operating speed. Special shaft modifications, cables and connectors are also available upon request.

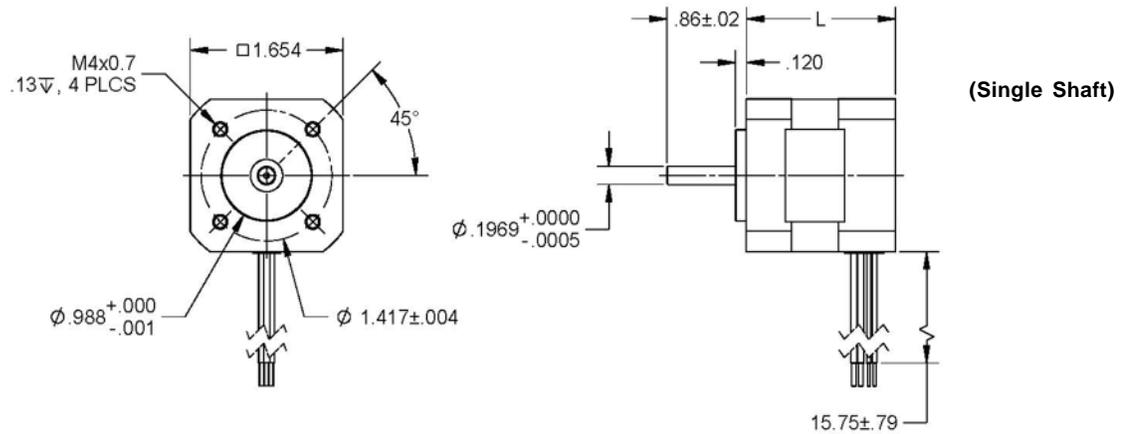
SPECIFICATIONS

Model #	Continuous Stall Torque (oz-in)	Rated Voltage (V)	Rated Speed (RPM)	Rated Power (W)	Peak Torque (oz-in)	Peak Current (A)	Line to Line Resistance (ohms)	Line to Line Inductance (mH)	Torque Constant (oz-in/A)	Back EMF voltage (V/kRPM)	Rotor Inertia (oz-in-sec ²)	Weight (lbs)	"L" Length (in)
BLY171S-24V-4000	11	24	4000	30	27	5.4	1.8	2.1	5.0	3.66	0.00034	0.56	1.6
BLY171S-17V-8000	11	17	8000	42	21	10.0	0.2	0.3	2.0	1.14	0.00034	0.56	1.6
BLY172S-24V-4000	21	24	4000	55	54	11.0	0.8	1.2	5.0	3.72	0.00068	0.94	2.4
BLY172S-17V-9500	21	17	9500	69	30	20.0	0.1	0.09	1.5	0.9	0.00068	0.94	2.4
BLY173S-24V-4000	31	24	4000	80	80	16.0	0.6	0.8	5.0	3.76	0.00102	1.32	3.2
BLY174S-24V-4000	42	24	4000	110	106	20.0	0.3	0.5	5.0	3.94	0.00136	1.72	3.9

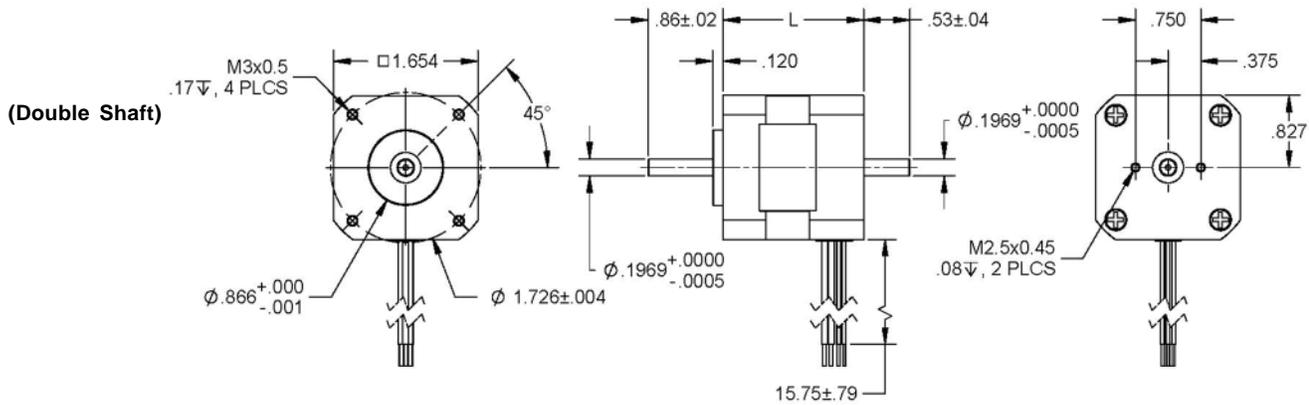
Notes: The 7th character "S" denotes a single shaft, use "D" for double shaft. Custom leadwires, cables, connectors, and windings are available upon request.

L010228

(All units are inches)

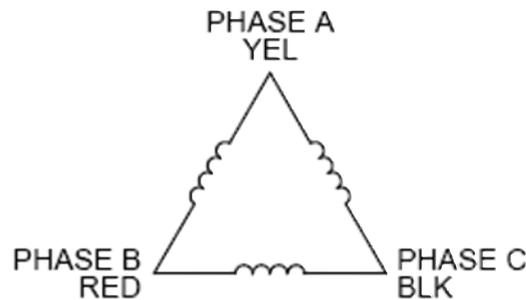


(Single Shaft)



(Double Shaft)

Wire Color	Description
Red	Hall Supply
Blue	Hall A
Green	Hall B
White	Hall C
Black	Hall Ground
Yellow	Phase A
Red	Phase B
Black	Phase C



DESCRIPTION

WIRING INFORMATION

Winding Type:	Delta, 8 Poles	Max. radial force:	28N @ 20mm from the flange
Hall effect angle:	120 degree electrical angle	Max. axial force:	10N
Shaft run out:	0.025mm	Insulation class:	Class B
Radial Play:	0.02mm@450g	Dielectric strength:	500VDC for one minute
End play:	0.08mm@450g	Insulation resistance:	100MOhm, 500VDC

SPECIFICATIONS