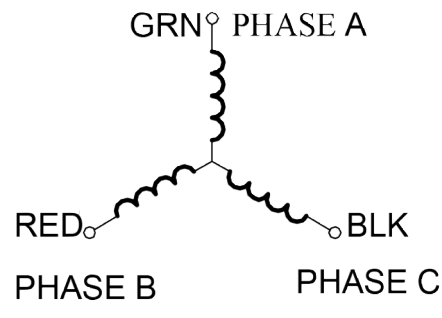


Wire Color	Description
Green	Phase A
Red	Phase B
Black	Phase C

Wire Color	Description
Yellow	Hall Vc
Blue	Hall A
Orange	Hall B
Brown	Hall C
White	Hall Ground



WIRING INFORMATION

- Rated Speed of the output shaft (after gear-box) = (Rated Motor Speed)/(Gear Ratio)
- Torque of the output shaft (after gear-box) = (Peak Motor Torque) X (Gear Ratio)
- Rotor Inertia of the output (shaft after gear-box) = (Rotor Motor Inertia) X (Gear Ratio)²
- Create a complete Model Number by selecting a motor from Table 1 and a Gear Box from Table 2.

BLWRPG090S-15V-8000-R3.7

Table 1		Output On Shaft of Motor Before Gear-Box											
Model #	FRAME Size	Rated Voltage (V)	Rated Power (W)	Peak Current (A)	Line to Line Resistance (ohms)	Line to Line Inductance (mH)	Back EMF Voltage (V/kRPM)	Weight (lbs)	"L2" Length (in)	Torque Constant (oz-in/A)	Rated Speed (RPM)	Peak Torque (oz-in)	Rotor Inertia (oz-in-sec ²)
BLWRPG092S-24V-4600	09	24	3.8	1.1	23.0	6.2	3.16	0.28	1.77	4.27	4600	2.97	9.3 x 10 ⁻⁶
BLWRPG093S-24V-3500	09	24	8.0	1.7	11.6	4.3	3.68	0.34	2.76	5.03	3500	8.50	18.7 x 10 ⁻⁶

Table 2		Output On Shaft of Gear-Box									
Parameters/Gear Box Ratio		3.7	5.2	14	19	27	51	71	100	139	264
Peak Torque(oz-in)		69.44	69.44	138.87	138.87	138.87	416.62	416.62	416.62	416.62	416.62
Number of Gear Trains		1	1	2	2	2	3	3	3	3	4
"L1" (Length of Gear Box in Inches)		1.39	1.39	1.39	1.39	1.39	1.622	1.622	1.622	1.622	1.87

Notes: Custom leadwires, cables, connectors, and windings are available upon request.

Winding Type:	Star, 8 Poles	Max. radial force:	0.022 lbs @ 10mm from the flange
Hall effect angle:	120 degree electrical angle	Max. axial force:	0.004 lbs
Shaft run out:	0.025mm	Insulation class:	Class B
Radial Play:	0.02mm@ 0.992in	Dielectric strength:	500VDC for one minute
End play:	0.08mm@0.992in	Insulation resistance:	100MOhm, 500VDC

SPECIFICATIONS