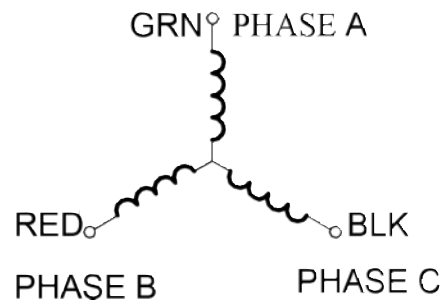




Wire Color	Description	Wire Color	Description
Green	Phase A	Yellow	Hall Vc
Red	Phase B	Blue	Hall A
Black	Phase C	Orange	Hall B
		Brown	Hall C
		White	Hall Ground



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)<sup>2</sup>
- Create a complete Model Number by selecting a motor from Table 1 and a Gear Box from Table 2.

Example:  
**BLWRPG110S-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)	Motor Weight (lbs)	"L2" Length (in)	Torque Constant (oz-in/A)	Rated Speed (RPM)	Rated Torque (oz-in)	Rotor Inertia (oz-in-sec <sup>2</sup> )
BLWRPG111S-24V-2000	Size 11	24	1.0	0.23	93.3	28	8.0	0.18	1.49	9.32	2000	0.708	3.00x10 <sup>-5</sup>
BLWRPG111S-24V-2700	Size 11	24	2	0.42	55	18.3	6.0	0.18	1.49	7.05	2700	0.991	5.22x10 <sup>-5</sup>
BLWRPG112S-36V-10000	Size 11	36	42	10.6	1.56	0.75	2.22	0.46	3.03	2.01	10000	5.664	8.47x10 <sup>-5</sup>

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)	83	83	166	166	166	417	417	417	417	833
Number of Gear Trains	1	1	2	2	2	3	3	3	3	4
"L1" (Length of Gear Box in mm)	31.5	31.5	40	40	40	48.5	48.5	48.5	48.5	57.5
Gear Box Weight (lbs)	0.13	0.13	0.18	0.18	0.18	0.20	0.20	0.20	0.20	0.24
Rated Torque (oz-in)	28	28	55	55	55	139	139	139	139	278
Efficiency (%)	90	90	81	81	81	73	73	73	73	66

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

Winding Type:	Star, 4 Poles	Planetary Gear Radial play of shaft :	0.04mm
Planetary Gear Housing:	Metal	Planetary Gear Thrust play of shaft:	0.3mm
Planetary Gear at output:	Sleeve Bearings	Planetary Gear Shaft press fit force,max:	5.5 lbs
Planetary Gear Radial load:	10mm @ 7.7 lbs	Planetary Gear Shaft axial load:	22 lbs

SPECIFICATIONS