



## Motor Characteristics @ 25°C

ITEM	ABBREVIATION	UNITS	REFERENCE VALUE
Motor Constant ( $K_t/\sqrt{R}$ )	Km	oz. in./ $\sqrt{W}$	.69
Electrical Time Constant	Te	msec.	.130
Mechanical Time Constant	Tm	msec.	5.17
Max Cont Input Power	P	W	34.8
Temperature Rise†	TPR	°C/W	12.0
Max Winding Temperature		°C	155
Rotor Inertia	Jm	oz. in. sec <sup>2</sup>	.000018
Number of Poles			4
Winding Connection			3 phase WYE

†Assumes motor is mounted to 8.00" x 8.00" x .25" aluminum heat sink

## Winding Characteristics (alternate windings available)

VOLTAGE (VDC)	SPEED no load (rpm)	TORQUE		CURRENT			CONSTANTS		STANDARD PART NUMBERS*
		max rated (oz. in.)	** theoretical stall (oz. in.)	max no load (amps)	max rated load (amps)	** theoretical stall (amps)	K <sub>t</sub> (oz. in./amp)	R (ohms)	
24	24,000	1.0	8.75	.21	1.1	6.63	1.32	3.62	545A100-1

\*\*Because of motor losses and the variable types of commutation/drive electronics, stall currents and torques will not always be attainable

**NOTE:** Alternate windings (voltage, speed) are available

## \*When You Order

Units shown above are standard and may be ordered by part number. Remember to include motor winding dash number,

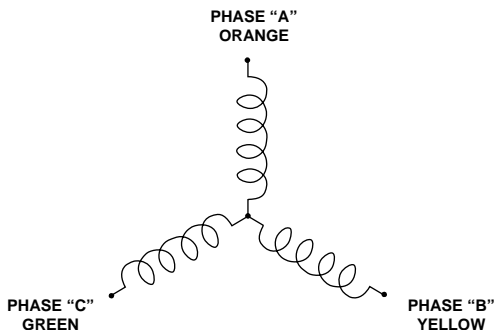
EXAMPLE: 545A100-1

## Lead Wire Designation

LEAD WIRE COLOR CODE			
LEAD	COLORS	AWG	DESCRIPTIONS
+ VDC	RED/WHITE	26	HALL SENSORS
GROUND	BLACK/WHITE	26	
HALL "A"	ORANGE/WHITE	26	
HALL "B"	YELLOW/WHITE	26	
HALL "C"	GREEN/WHITE	26	
PHASE "A"	ORANGE	26	MOTOR LEADS
PHASE "B"	YELLOW	26	
PHASE "C"	GREEN	26	

NOTE: Lead colors may vary at factory discretion

## Motor Coil Connections



## Commutation and Connection Diagrams

