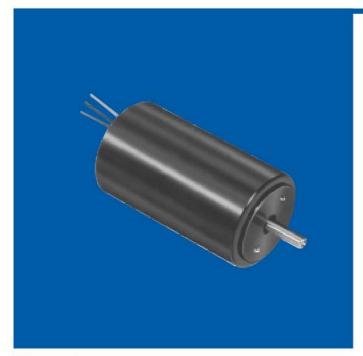
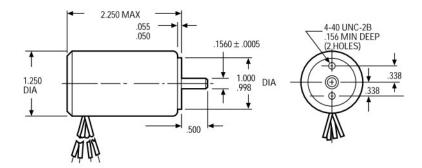
AC Hysteresis Synchronous and Induction Motors



Dimensions



general design specification: MIL-M-7969 power rating:

Induction — Up to 1.5 oz. in. Hysteresis Synchronous — Up to 0.85 oz. in.

voltage and frequency: 115 and 200 VAC @ 400 Hz

weight: 6.5 ounces

inertia:

Induction — 8 x 10⁻⁵ oz. in. sec.²

Hysteresis Synchronous — 2 Pole: 7.7 x 10⁻⁵ oz. in. sec.²

— 4 Pole: 6.4×10^{-5} oz. in. sec.²

- 6 Pole: 7.1 x 10-5 oz. in. sec.2

shaft: Precision-ground No. 303 or 416 stainless steel. Options: length, smaller diameter, flats, pinions, gears, holes (through or tapped), threaded ends and tapers. Type of steel used may change depending upon variation selected

bearings: Double shielded, life-lubricated for –55°C to + 85°C operation. Special lubricants available for

temperature extremes

cables/leads: 8" #26 AWG leads per MIL-W-16878/4

housing: Aluminum

marking: Per MIL-STD-130

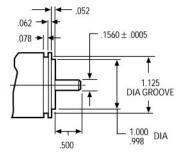
life: 200 to 1,000 hours continuous duty depending upon the

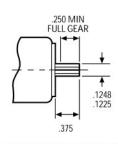
voltage, frequency and number of poles

options available:

- · Gear train (see B-2030 for details)
- Length. MC motors are available in 4 lengths with output torque being proportional to length as follows:

TYPE	LENGTH (in.)	TORQUE					
MC (Standard)	2.25	See Chart, opposite page					
MCS	1.75	0.5 x standard torque					
MCL	2.75	1.5 x standard torque					
MCLL	3.25	2.0 x standard torque					





PINION DATA: NUMBER OF TEETH —13 DIAMETRAL PITCH — 120° PRESSURE ANGLE — 20° AGMA 9 IS STANDARD OTHER PINIONS ARE AVAILABLE

B-2000

Standard Part Numbers and Data Hysteresis Synchronous

VOLTAGE (VAC)		O L	P H	SCHEMATIC	VARIABLE LEAD COLOR	PHASING CAPACITOR			MAX RATED	MIN	MAX POWER (watts)		STANDARD PART
	FRE- QUENCY (Hz)		A S E		С	(μ F)	(wvac)	SYNC SPEED (rpm)	LOAD @ SYNC. SPEED (oz. in.)	PULL UP TORQUE (oz. in.)	no load	normal rated load	NUMBER* TAPPED HOLE MOUNT
115	60	2	1	С	WHT	1.00	200	3,600	.70	.50	12	12	18A108
115	60	4	1	С	BLK	1.00	200	1,800	.65	.50	12	12	18A107
115	60	6	1	D	YLW	1.00	200	1,200	.50	.40	12	12	18A437
115	400	2	1	Α	BLK	.180	350	24,000	.80	.55	23	33	18A1003-2
115	400	2	3	В	BLK	NOT	REQ'D	24,000	.80	.80	20	30	18A1004-2
115	400	4	1	A	GRN	.082	500	12,000	.65	.45	17	20	18A1005-2
115	400	4	3	В	GRN	NOT	REQ'D	12,000	.85	.85	16	21	18A1006-2
115	400	6	1	D	GRY	.150	400	8,000	.45	.25	16	18	18A250
200	400	2	3	В	BLK	NOT	REQ'D	24,000	.80	.80	20	30	18A1008-2
200	400	4	3	В	GRN	NOT	REQ'D	12,000	.75	.75	14	18	18A1009-2

Induction

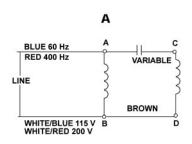
å//		P 0	P H		VARIABLE LEAD COLOR	PHASING CAPACITOR	MIN SPEED		MIN	MAX POWER (watts)		STANDARD PART
VOLTAGE (VAC)	FRE- QUENCY (Hz)	L E S	A S E	SCHEMATIC	С	(μF) (wvac)	@ RATED LOAD (rpm)	RATED LOAD (oz. in.)	PULL UP TORQUE (oz. in.)	no load	normal rated load	NUMBER* TAPPED HOLE MOUNT
115 115 115 115	400 400 400 400	2 2 4 4	1 3 1 3	A B A B	BLK BLK GRN GRN	.180 350 NOT REQ'D .082 500 NOT REQ'D	21,000 22,000 10,000 10,500	1.00 1.50 1.00 1.50	.80 1.50 1.00 1.50	16 16 17 14	32 40 28 28	18A1003-1 18A1004-1 18A1005-1 18A1006-1
200 200	400 400	2	3	B B	BLK GRN	NOT REQ'D NOT REQ'D	22,000 10,500	1.50 1.50	1.50 1.50	16 14	40 28	18A1008-1 18A1009-1

Note: All 3-phase voltages are line to line. MIL-STD-704 is 200v line to line

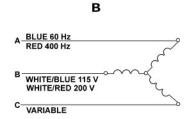
*When You Order

Units shown above are standard and may be ordered by part number. Remember to include dash number, EXAMPLE: 18A1003-2.

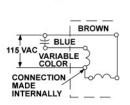
Schematic Wiring



CW ROTATION (VIEWING SHAFT END). FOR CCW ROTATION REVERSE C & D

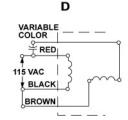


ABC PHASE SEQUENCE FOR CW ROTATION (VIEWING SHAFT END). FOR CCW ROTATION REVERSE ANY TWO LEADS



C

CW ROTATION (VIEWING SHAFT END). FOR CCW ROTATION CONNECT LINE TO BLUE INSTEAD OF BROWN



CW ROTATION (VIEWING SHAFT END). FOR CCW ROTATION REVERSE RED & BLACK