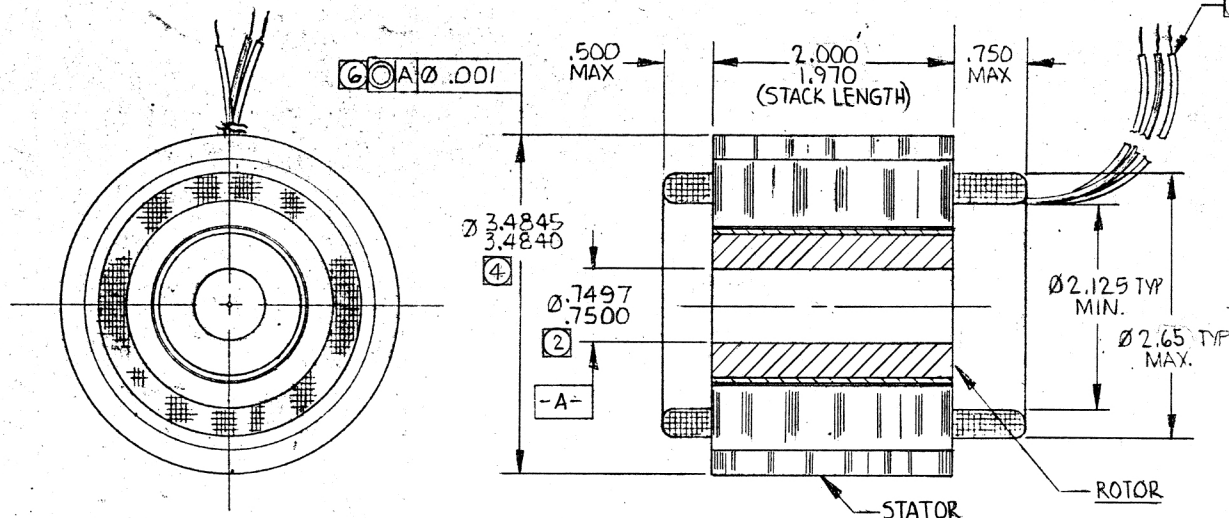




ELECTRICAL AND PERFORMANCE DATA

MOTOR TYPE : FOUR POLE, THREE PHASE, HYSTERESIS SYNCHRONOUS
DRIVE WAVEFORM ~ SINUSOIDAL WITH THD OF LESS THAN 0.75 %
STATOR WINDING CONFIGURATION : THREE PHASE, WYE
AMPLITUDE OF DRIVE SIGNAL : VARIABLE WITH FREQUENCY
220 VRMS LINE TO LINE MAX AT 1500 HZ
FREQUENCY : VARIABLE FROM 400 HZ TO 1500 HZ (SEE CHART)

FREQ. (HZ)	VRMS (MAX) LINE TO LINE	LOAD (OZ-IN)	SYNCHRONOUS SPEED (RPM)	CURRENT PER PHASE (A RMS)
400	55	1.3	12,000	4.0 MAX
800	110	2.6	24,000	4.0 MAX
1200	165	4.0	30,000	4.0 MAX
1500	220	5.0	45,000	4.0 MAX

ACCELERATION FROM 0 TO 45,000 RPM WITH EXTERNAL (TO MOTOR ROTOR) INERTIAL LOAD OF 1000 GM-CM² MAX AND WITH 220 VRMS LINE TO LINE MAX 1500 HZ APPLIED: 60 SECONDS MAX.

GENERAL DATA

OPERATING REQUIREMENTS (PROVIDED BY USER):

MOTOR COOLING:

AIRFLOW THROUGH STATOR WINDING: 40 CFM MIN
CORRESPONDING HEAD: T.B.D BY USER

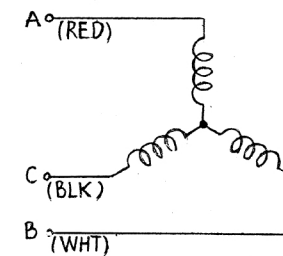
ENVIRONMENT:

AMBIENT TEMPERATURE: +15 TO +60°C OPERATING
-40 TO +71°C NON-OPERATING

ALTITUDE : GROUND USE.

VIBRATION AND SHOCK: NORMAL COMMERCIAL AND MILITARY SHIPPING

CIRCUIT DIAGRAM



WITH A-B-C PHASE SEQUENCE ROTATION
SHALL BE CW VIEWING THE STATOR FROM
LEAD END.

TO REVERSE ROTATION INTERCHANGE ANY
OF TWO (2) LEADS

6. CONCENTRICITY INDICATED COMPLIES WHEN UNIT IS MOUNTED IN SYSTEM.
5. LEADWIRES: 20 AWG, TEFLON PER MIL. W-16878/4 (TYPE E), COLORS AS SHOWN, 10 INCHES LONG MIN FROM EDGE OF END COIL
4. CONCENTRICITY OF STATOR I.D. TO STATOR O.D. — 0.0005 TIR MAX.
3. DIAMETRICAL CLEARANCE BETWEEN THE STATOR I.D. AND ROTOR O.D. — 0.0025 MIN.
2. CONCENTRICITY OF ROTOR I.D. TO ROTOR O.D. — 0.0005 TIR MAX.
1. ALL VALUES ARE NOMINAL AT ROOM AMBIENT ($25^{\circ}\text{C} \pm 5^{\circ}\text{C}$)

NOTES: UNLESS OTHERWISE SPECIFIED

QTY RECD		SYM	NOMENCLATURE OR DESCRIPTION		CODE IDENT NO.	PART OR IDENTIFYING NO.		SPECIFICATION	MATERIAL OR NOTE		ZONE	ITEM NO.
LIST OF MATERIAL												
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONS DECIMALS ANGLES ± 1/64 .XX ± .01 ± 2° .XXX ± .005 ✓ ALL MACHINED SURFACES REF. USAS B46.1 MATERIAL:					DRAWN M. J. GOMEZ		DATE 5/19/85		AEI AMERICAN ELECTRONICS, INC. 1600 E. VALENCIA DRIVE, FULLERTON, CALIF. TITRE STATOR AND ROTOR HYSTERESIS SYNCHRONOUS MOTOR			
					CHECK		5/13/85					
					ENGINEER K. C. Olin		5/14/85					
					APPROVED W. R. Allen		5/16/85					
					APPROVED R. M. [unclear]		5/18/85					
					APPROVED [unclear]		5/19/85		SIZE CODE IDENT NO. DWG NO.			REV
FINISH:					APPROVED				C 89321 35JA3		NC	
NEXT ASSY		USED ON		NEXT ASSY	FINAL ASSY							
APPLICATION					QTY REQD		SCALE 1/1 SHEET OF 1					