

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

NOTE:
ROTOR MUST BE EXTREMELY
FREE RUNNING.

MO-100 B

COIL SPECIFICATION			
WINDINGS	URNS	SIZE WIRE	COLD RES ± 2 1/2%
STATOR	780	# 26	11.9
SHADING, EACH	300	# 35	24.2

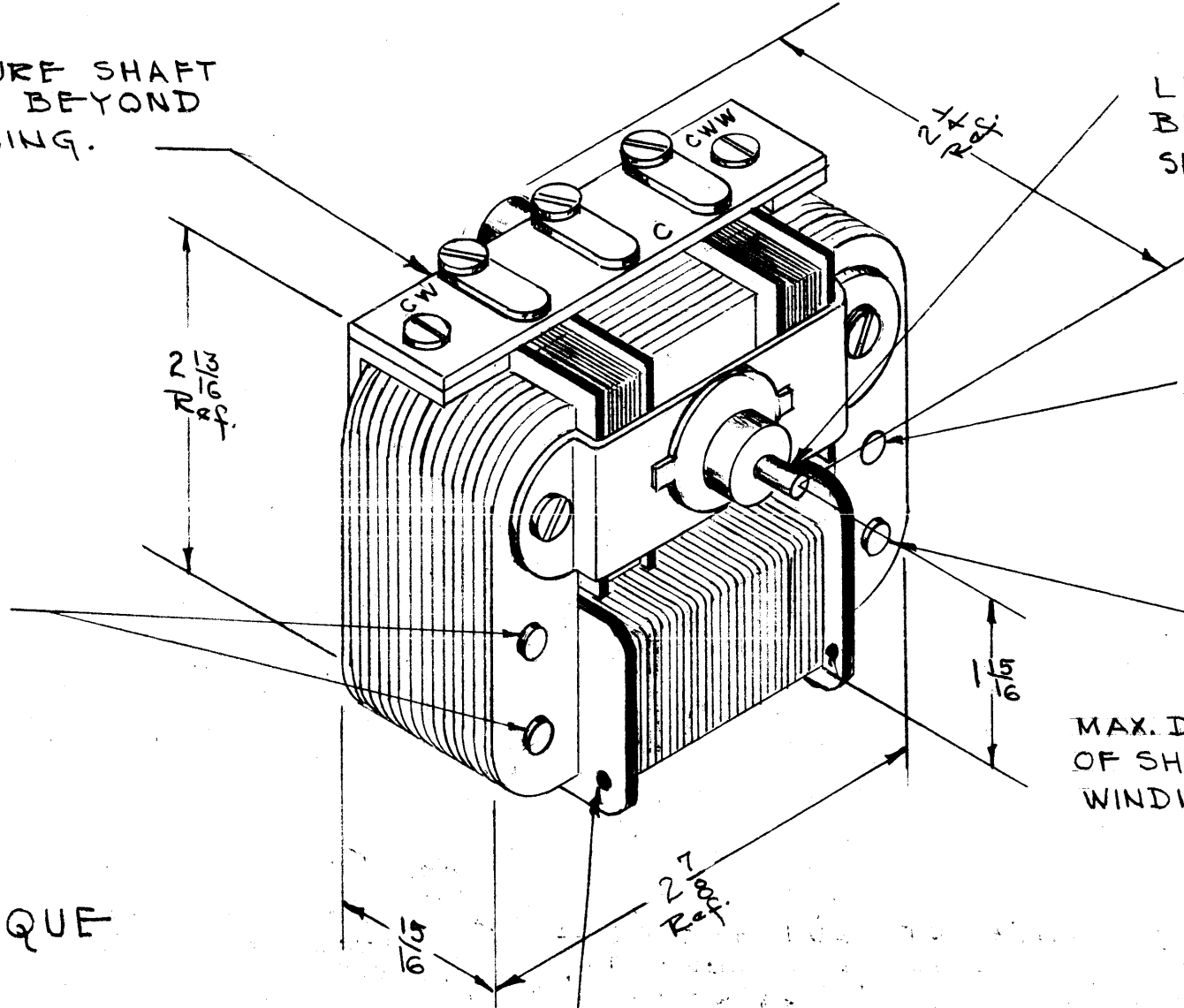
REAR OF ARMATURE SHAFT
NOT TO PROJECT BEYOND
BEARING HOUSING.

LENGTH OF SHAFT BEYOND
BEARING HOUSING 5/16 MIN., 1/2 MAX.
SHAFT DIA. (.125)

NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK
RIVETS



27 (.144) DRILL-
CLEARANCE HOLE

RIVET

MAX. DISTANCE BETWEEN CENTER
OF SHAFT AND OUTSIDE OF STATOR
WINDING 1 5/16.

2500 R.P.M.
LOCKED ROTOR TORQUE
.18 LB. IN.

REF: BARBER-COLMAN CO. TYPE: BYAE-4787

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
			TUNING MOTOR	
			115V 60~	
			JAN 8-6-52 DRAWN	
			CDD CHECKER	
			SUPER 6-DES AMS 235	
			MO-100	

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
B	4	WAS OYAZ-6941	10/9/52	2	ESA	LAO	
	3	50 Removed	8-25-52	1	HAO		
A	2	15 Lb.	8-25-52	1	HAO		
	1	shaft dia. (.152)	8-25-52	1	HAO		

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

VOX	101	A-586	8-6-52
MODEL	PROJECT NO.	ASSY. NO.	DATE
USED ON			

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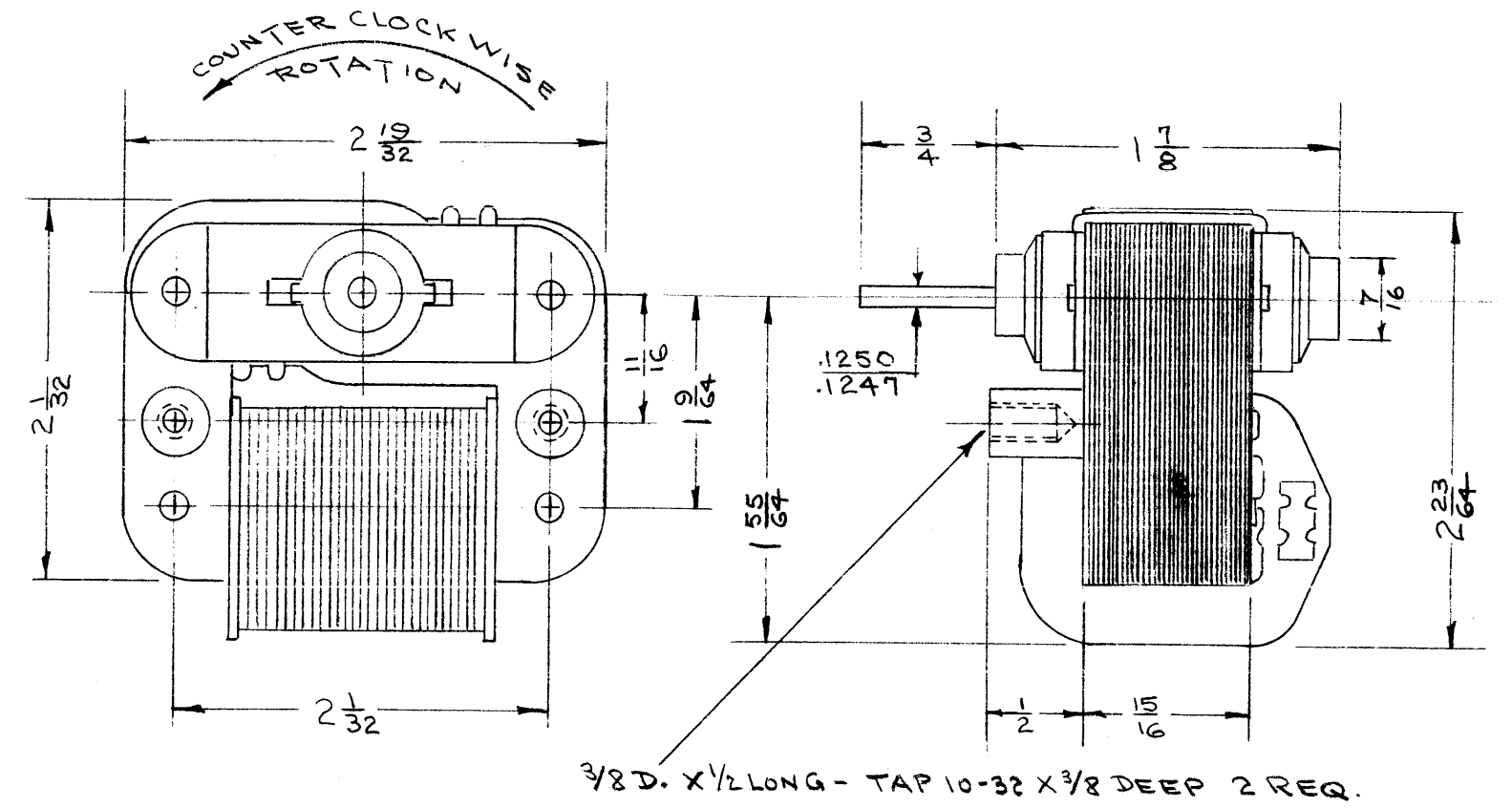
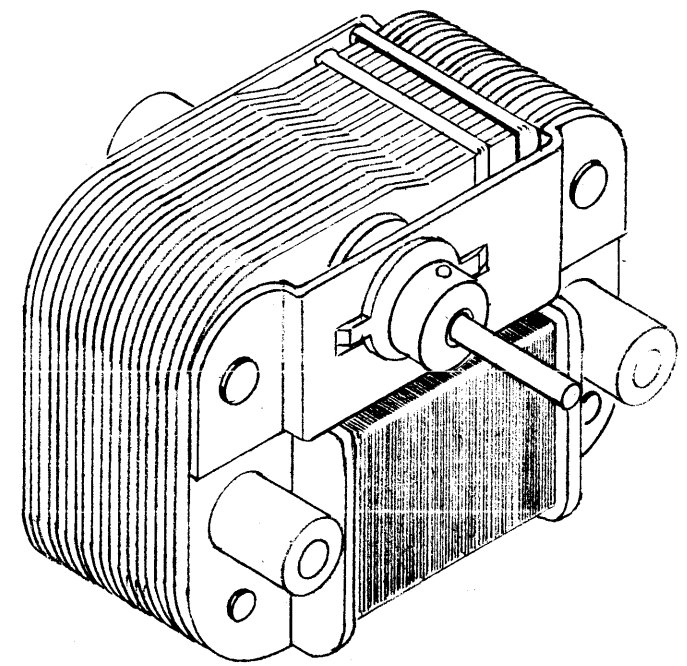
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

TMC NO	MFG. NO	ROTATION
MO-101-1	KYAB-2958-1	CLOCK WISE
MO-101-2	KYAB-2958	COUNTER CLOCK WISE

MO-101 A

CHARACTERISTICS

VOLTAGE = 115 V. A.C 60 CYCLES
 FULL LOAD SPEED = 2400 RPM 19 AMPS.
 NO LOAD SPEED = 3400 RPM 17 AMPS.
 DUTY CYCLE = CONTINUOUS
 FULL LOAD H.P. = .002
 FULL LOAD TORQUE = .055 LB - IN.



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Property of:
 THE TECHNICAL MATERIEL CORPORATION
 MAMARONECK, NEW YORK

DIMENSIONS FOR REF. ONLY

REF: BARBER COLEMAN CO.

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
		#	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		STOCK SIZE		
		#	MOTOR	
		MATERIAL		
		WEIGHT PER PC.		
		#		
		TYPE & TEMPER		
		#		
		HEAT TREAT. SPEC.		
		#		
		FINISH & SPEC. NO.		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
A	1	REDRAWN - MO-101-2 Added	1/18/54				

TOLERANCES		SCALE:
ALL OTHERS	DEC. DIM. ± FRAC. DIM. ± ANGULAR DIM. ±	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

1	TWR-115	151	A-211	1-18-54
PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE

USED ON

MO-101 A

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MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

RELEASED

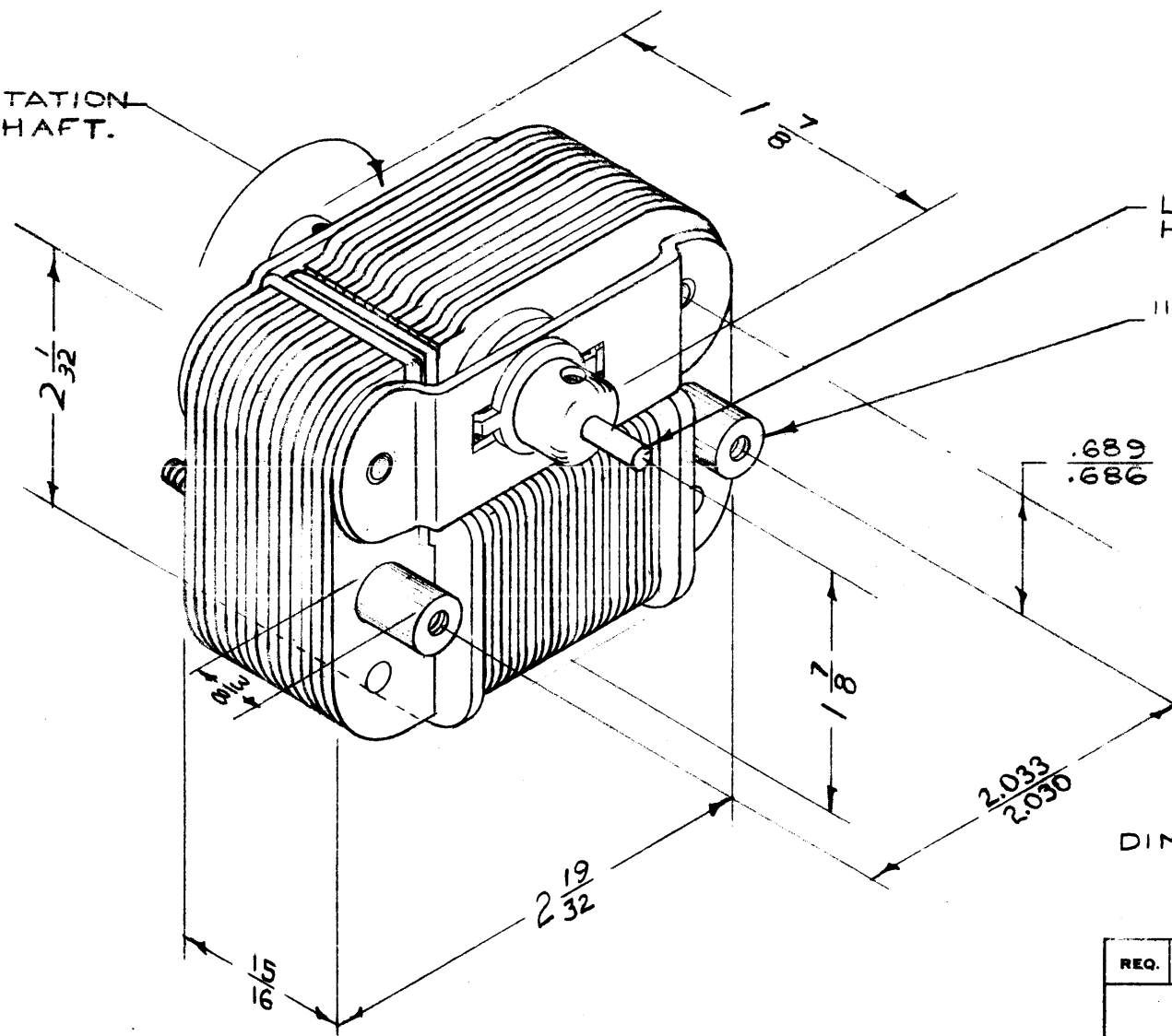
MO102 A

CHARACTERISTICS

	60 CYCLES	50 CYCLES
VOLTAGE = 115 V. A.C.	2400 R.P.M.	2000 R.P.M. 19AMPS
FULL LOAD SPEED	3400 R.P.M.	2800 R.P.M. .17AMPS
NO LOAD SPEED	CONTINUOUS	CONTINUOUS
DUTY CYCLE	.002	.002
FULL LOAD H.P.	.055 LB. IN.	.055 LB. IN.
FULL LOAD TORQUE		

MAXIMUM AMBIENT TEMP. UNDER STALL CONDITIONS = 50°C (122°F)
 INSULATION = CLASS "F"
 LUBRICATION = HIGH TEMPERATURE TYPE

CLOCK WISE ROTATION
 VIEWED FROM SHAFT.



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DIMENSIONS FOR REF. ONLY.

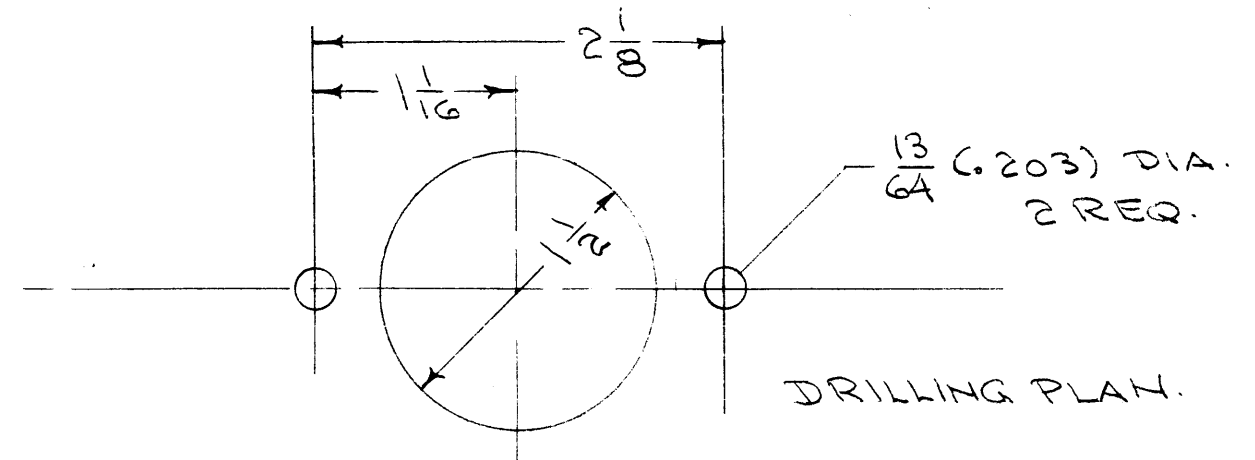
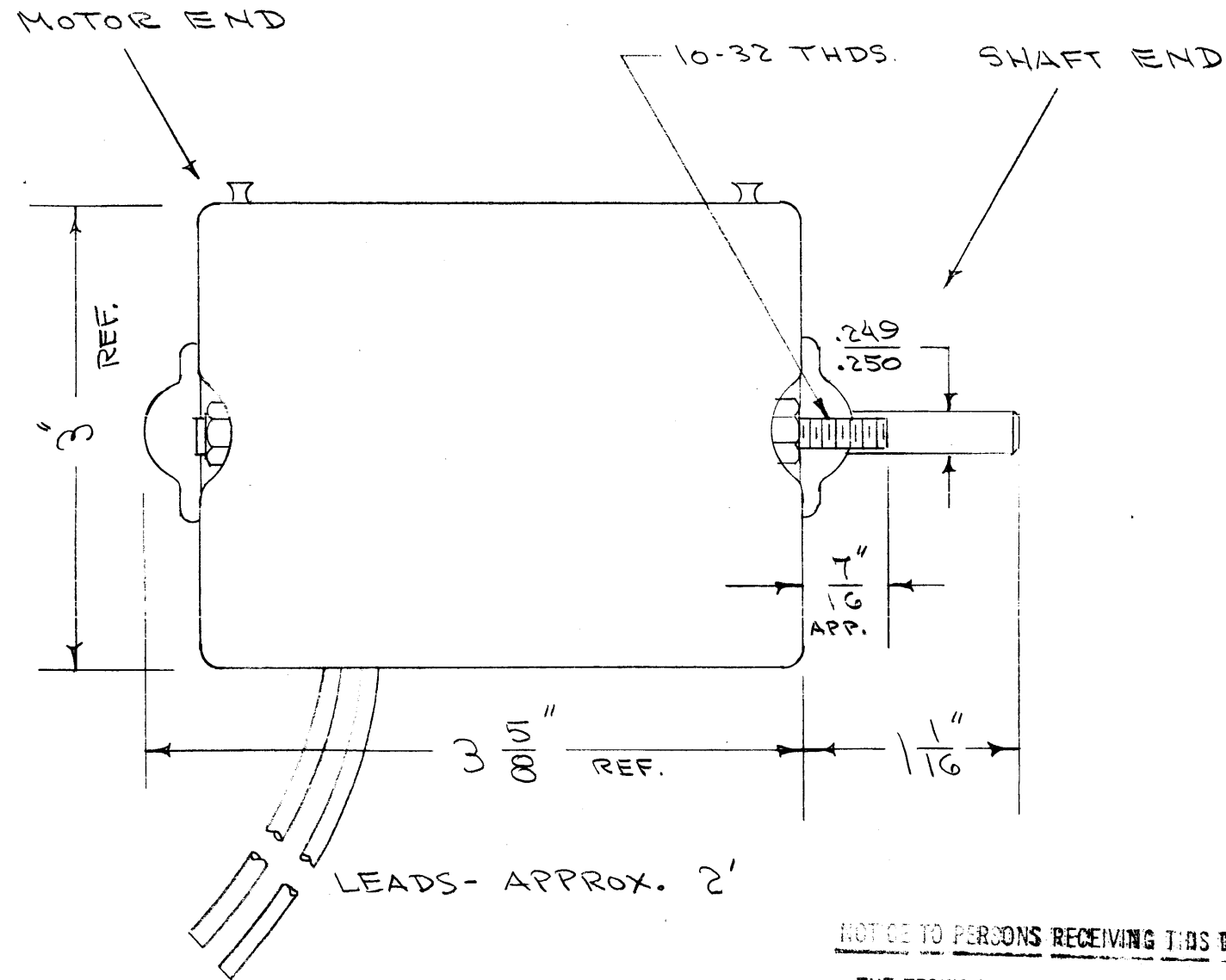
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
//		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
STOCK SIZE		MOTOR	
//	//		
MATERIAL WEIGHT PER PC.			
//		16 12-18-52	
TYPE & TEMPER		DRAWN	ELEC. DES. APP. MECH. DES. APP.
//		CHECKED	FINAL APPROVAL
HEAT TREAT. SPEC.			
//			
FINISH & SPEC. NO.		MO102	

A	REF. S401 CLARIFIED TO CHAR. 50 CYCLES ADDED	4-22-66	16107	QCB	QCB	MM	
ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
TOLERANCES			SCALE: FULL SIZE				
ALL OTHERS	DEC. DIM. ± .005	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.					
	FRAC. DIM. ± 1/64						
	ANGULAR DIM. ±						

S401-64 (KYAB-5634-4) ← FOR PURCHASING ONLY

CK-2	168	A-262	12-18-52
MODEL	PROJECT NO.	ASSY. NO.	DATE

USED ON



ELECTRICAL SPECIFICATIONS:
 SHADED POLE - 2 POLE
 WATTS - 40
 R.P.M. - 3100
 H.P. - 1/100
 VOLTS - 115 A.C.

MAINTENANCE:
 LIGHT SAE 10-20, 2 OR 3 DROPS
 EVERY 3 MONTHS
 OILITE BEARINGS

DIRECTION OF TURN.	
CCW	COUNTER CLOCKWISE
CW	CLOCKWISE

NOTE:
 DIRECTION OF TURN
 DETERMINED FROM
 MOTOR END.

MO-106 - CCW
 TMC NO. DIRECTION

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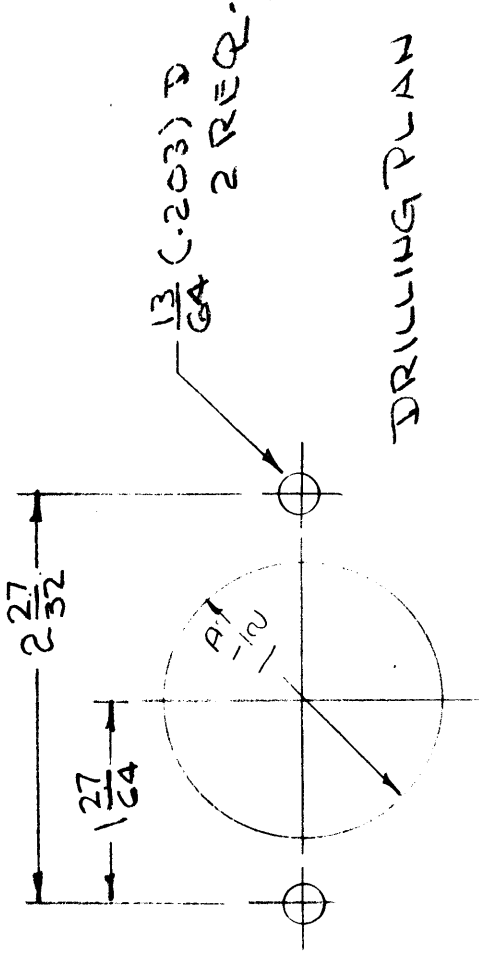
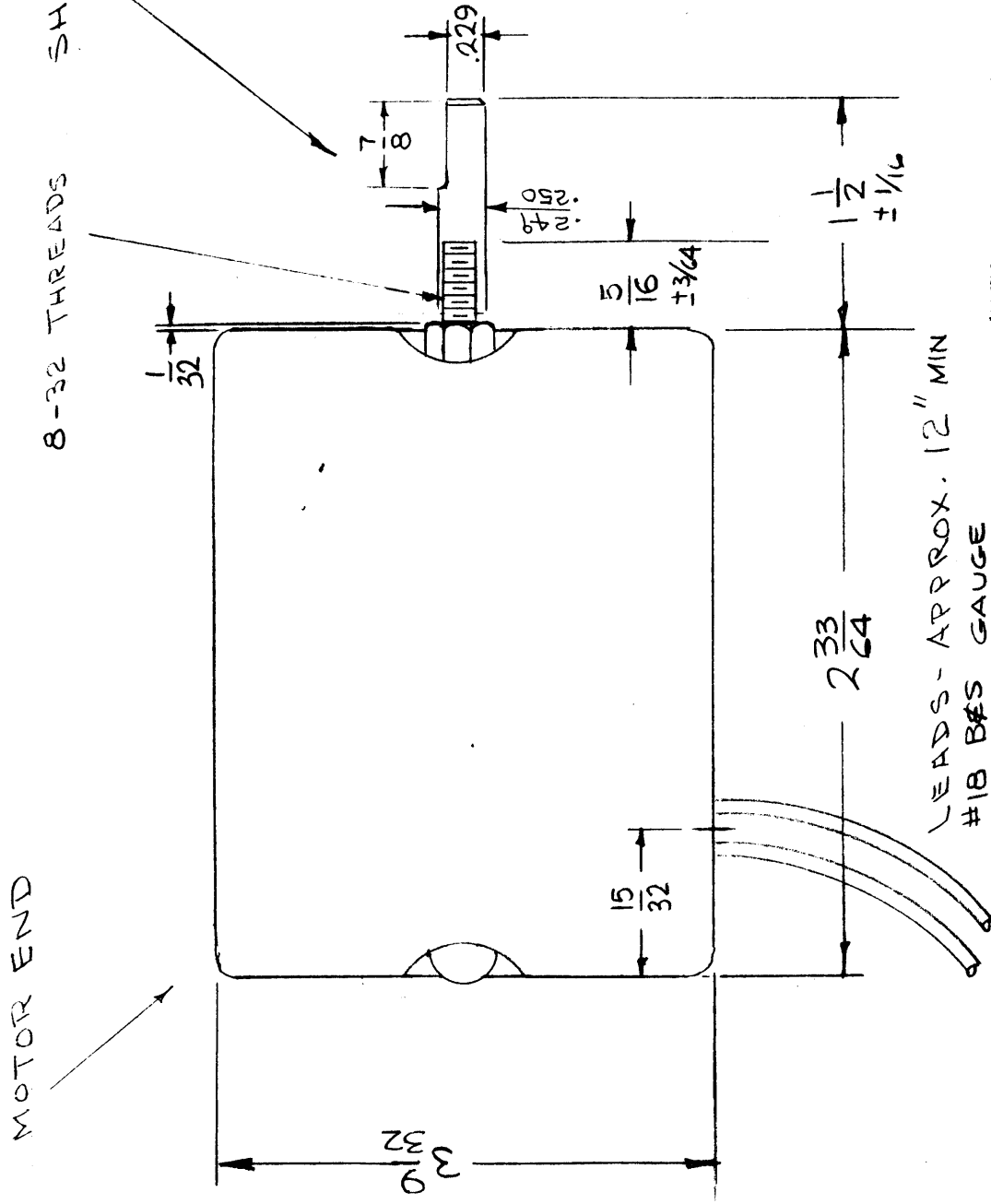
REF. RIPLEY CO. INC #8431

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	2	RTF, CAB/FR REF. DELETED	7/5/54	4	HALE	CRF	WE
C	1	CAT. NO. CORRECTED	7/18/56	3	COB	HALE	A.J.J.
B	1	DRILLING PLAN ADDED	3/16/56	2	CRF	HALE	A.J.J.
TOLERANCES		SCALE:					
DEC. DIM. ±		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.					
FRAC. DIM. ±		REMOVE ALL BURRS AND SHARP EDGES					
ANGULAR DIM. ±		REQ. PER UNIT					

MODEL	PROJECT NO.	ASS'Y. NO.	DATE
USED ON			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
STOCK SIZE		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MATERIAL		MOTOR, LR3 BLOWER	
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		A.J.J. FINAL APPROVAL	
		Mo-106 D	

MO-107 D



DRILLING PLAN

ELECTRICAL SPECIFICATIONS:

SHADED POLE - 2 POLE
 WATTS - 25 MAX.
 R.P.M. - 3100 @ 2.20 IN. OZ. TORQUE
 H.P. - $1/70$
 VOLTS - 115 A.C. 60 CPS. 1 PHASE
 AMPS - 0.35 MAX.
 MAINTENANCE - NONE

DIRECTION OF TURN	
CCW	COUNTER CLOCKWISE
CW	CLOCKWISE

NOTE:
 DIRECTION OF TURN
 DETERMINED FROM
 MOTOR END.

MO-107 - CCW
 THE MO DIRECTION

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 MAMARONECK, NEW YORK

REF: TRIPLE CO. INC. # B 3986

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	COMPLETELY REVISED	2-2-66	15700			
C	MFG STUD WAS 10-32 T.M.G.	1/20/66	15591	JL		
B	DIM 7/8 WAS 1, 1 1/32 WAS 3/8	8.17.64	12097	ATB		
A	5/16 DIM. WAS 5/8	7.13.64	11727	ATB		

TOLERANCES
 DEC. DIM. $\pm .005$
 FRAC. DIM. $\pm 1/64$
 ANGULAR DIM. \pm

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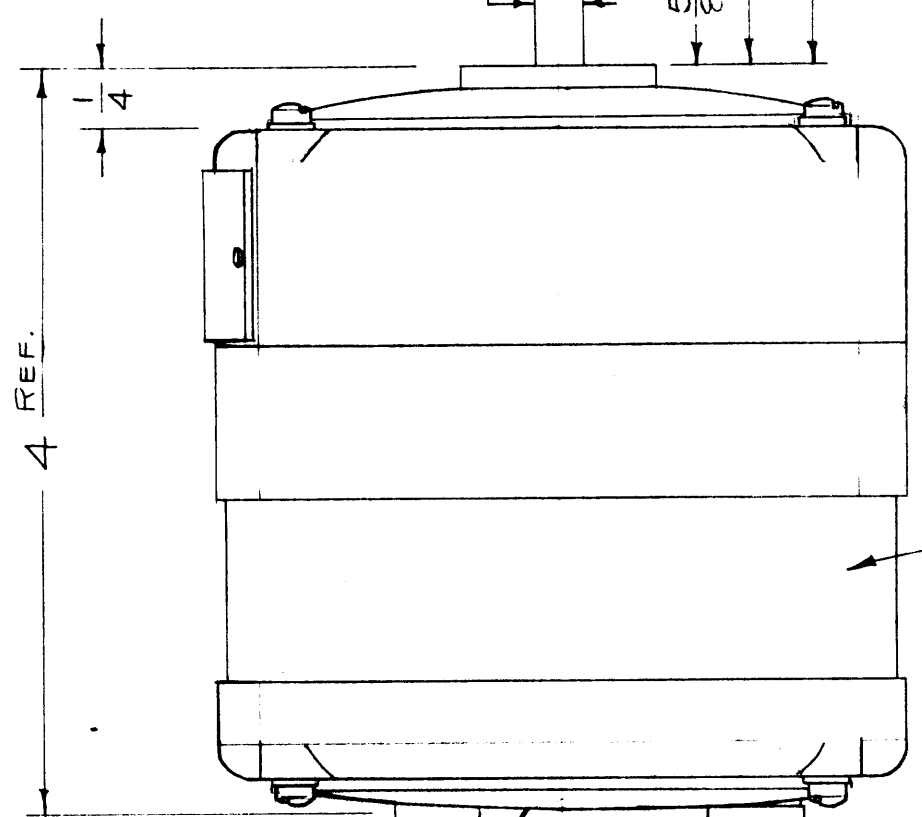
REQ. PER UNIT	MODEL	PROJECT NO.	ASSY. NO.	DATE
1	CAB/ER	G10		9-5-56
	RIF	G10		9-5-56

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
		MOTOR, OILLESS	

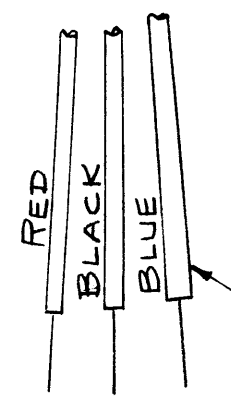
TYPE & QTY	MATERIAL	STOCK SIZE	DRAWN	CHECKED	FINAL APPROVAL

DATE	BY	NO.
9-5-56	A.J.J.	MO-107 D

MO-108 G

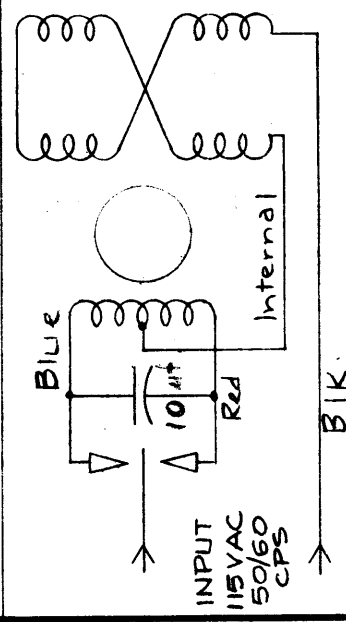


Solid Rear Plate



Leads Approx. 14" Long.

Solid Ventilator Strip



ELECTRICAL DATA:
 Shaded Pole - 2 Pole Reversible
 Direction _____
 Gear Ratio _____ 48 : 1
 Full Load RPM _____ 31
 No Load RPM _____ 54
 Stall Torque _____ 11.7 Lb. In.
 Full Load Torque _____ 7.1 Lb. In.
 Voltage _____ 115 VAC 50/60 CPS
 Wattage _____ 38 W.

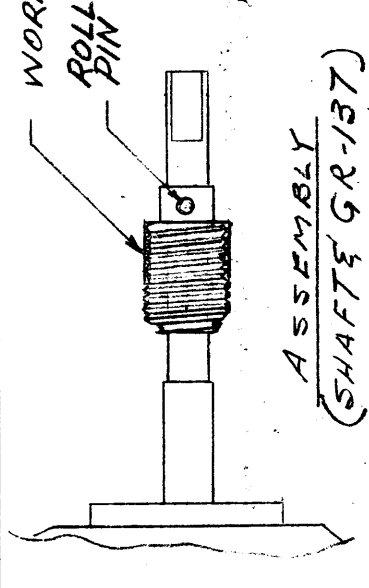
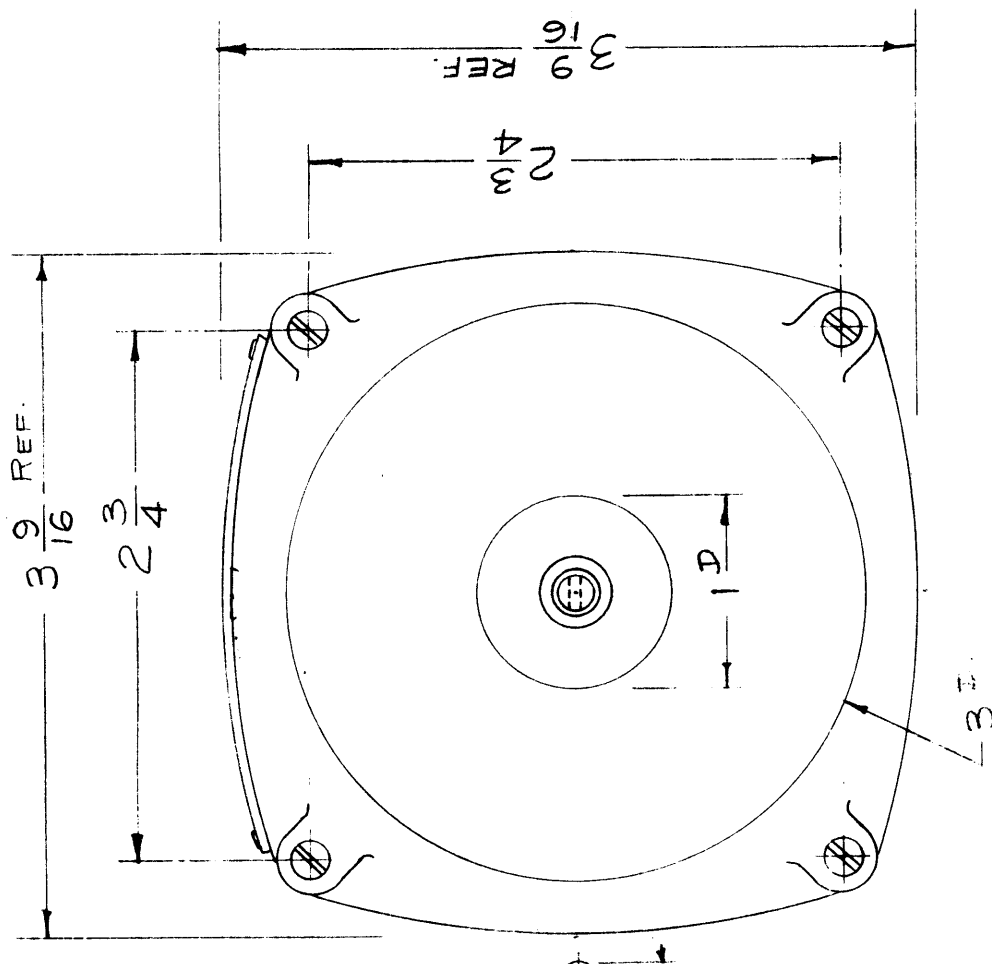
MECHANICAL DATA
 Ball Bearing Base
 Corrosion & Fungus Resistant
 Case - White Metal Die Cast
 Shaft - Stainless Steel - 410 See TMC
 Gear - TMC No. GR-137

REQ. PER UNIT	1	ATS-50(70)TU-2	6-859	DATE
	1	ATS-70TU	1-10-58	
	1	ATS-50TU	1-10-58	
REQ. PER UNIT		MODEL	PROJECT NO.	ASSY. NO.
			USED ON	

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
G 1	NOTE REVISED	11/8/65	1529	AW	JCB	[Signature]
F 2	NOTE ADDED	10/26/62	7539	CB	JCB	[Signature]
	MFR. NO. WAS (PYA)(8984)					

TOLERANCES
 DEC. DIM. ± 1/64
 FRAC. DIM. ± 1/64
 ANGULAR DIM. ±

SCALE: 5-401-64 (PZKE)(10236)
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
 REMOVE ALL BURRS AND SHARP EDGES



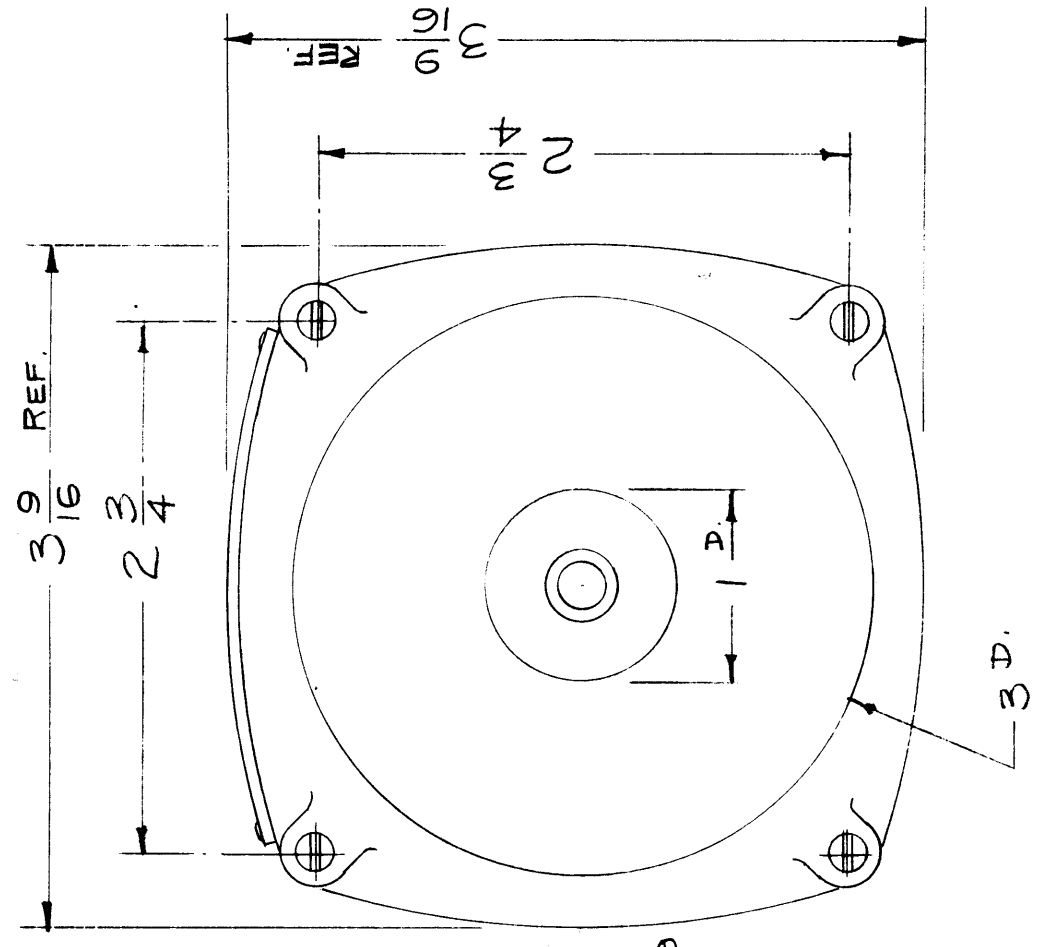
NOTE:
 DRIVE SHAFT, GEAR & PIN SHALL BE SUPPLIED & ASSEMBLED BY MOTOR MFR.

ASSEMBLY
 (SHAFT & GR-137)

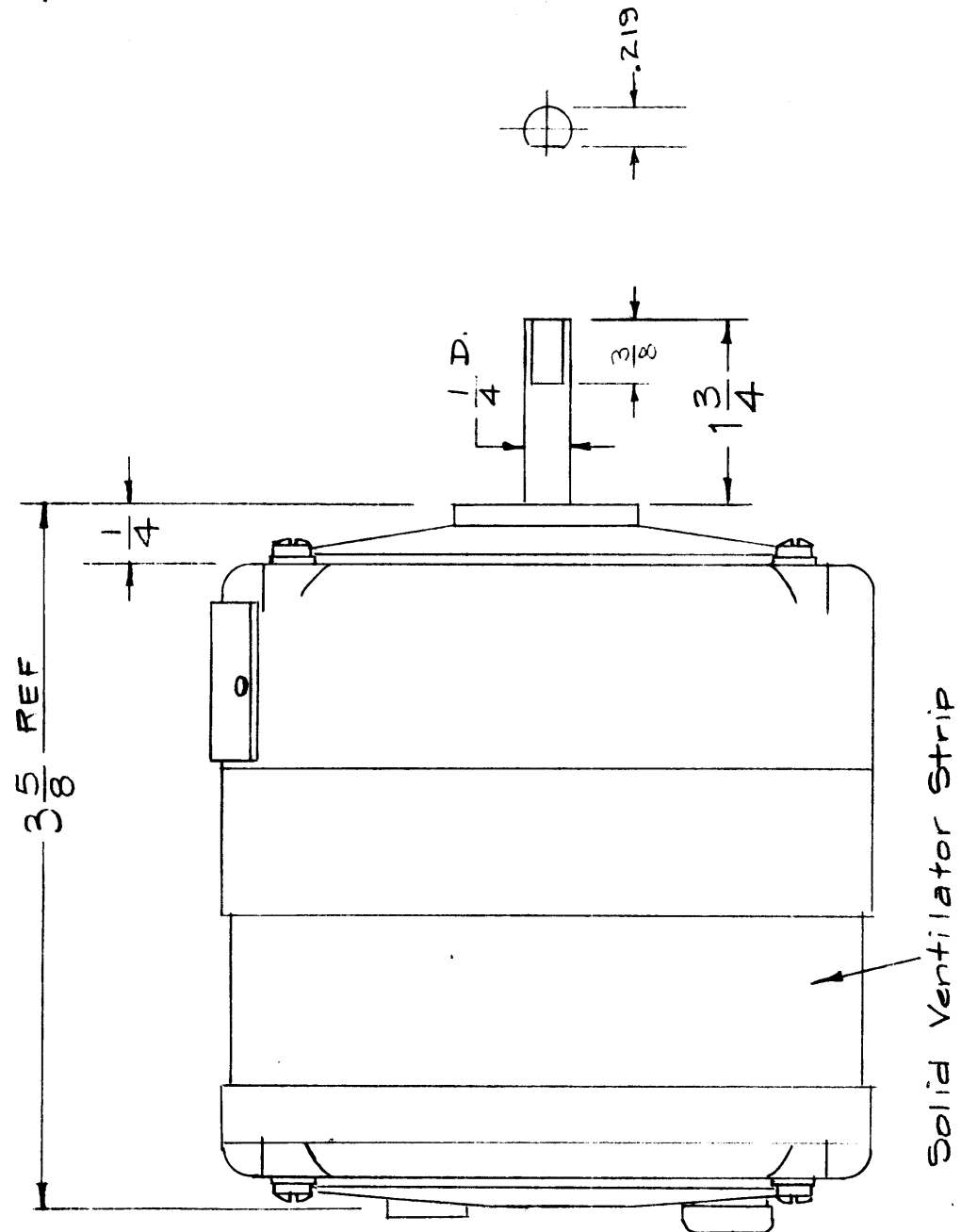
NOTE: Manufacturer will pin gear to shaft as shown.

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
	H	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	H	MOTOR, REVERSIBLE, SPLIT PHASE	
	H	MATERIAL	
	H	TYPE & TEMPER	
	H	HEAT TREAT. SPEC.	
	H	FINISH & SPEC. NO.	
	6/10/58	DRAWN	ATT
		CHECKED	ATT
		FINAL APPROVAL	
			MO-108 G

MO-109 F



NOTE:
DRIVE SHAFT (TMC No. PM 582)
SHALL BE SUPPLIED & ASSEMBLED
BY MOTOR MFR.



GREEN
BLK.

Leads Approx. 14" Long.

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MAMARONECK, NEW YORK

ELECTRICAL DATA

Shaded Pole - 2 Pole
Direction - Clockwise (Facing Shaft End)
Gear Ratio - 64:1
Full Load RPM - 3.6
No Load RPM - 5.3
Stall Torque - 33 Lb. In.
Full Load Torque - 27 Lb. In.
Voltage - 115 VAC 50/60 CPS
Wattage - 20 W.

MECHANICAL DATA

Corrosion & Fungus Resistant.
Case - White Metal Die Cast
Shaft - Stainless Steel - A10 See TMC PM-582
BALL BEARING BASE
1 AT-50(70)TU-2
1 AT-50TU
1 AT-50TU

ISSUE ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
F	NOTE DEL. (SOLID REAR PLATE)	3-30-66	16033	WHD	[Signature]	[Signature]

TOLERANCES
DEC. DIM. ±
FRAC. DIM. ± 1/64
ANGULAR DIM. ±

SCALE: S-401-64 (PEDB 10231)
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
	H	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
	H	MOTOR, UNIDIRECTIONAL	
	H	MATERIAL	
	H	FINISH & SPEC. NO.	
	H	TYPE & TEMPER	
	H	HEAT TREAT. SPEC.	
	H	STOCK SIZE	

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
	H	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
	H	MOTOR, UNIDIRECTIONAL	
	H	MATERIAL	
	H	FINISH & SPEC. NO.	
	H	TYPE & TEMPER	
	H	HEAT TREAT. SPEC.	
	H	STOCK SIZE	

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
	H	THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	
	H	MOTOR, UNIDIRECTIONAL	
	H	MATERIAL	
	H	FINISH & SPEC. NO.	
	H	TYPE & TEMPER	
	H	HEAT TREAT. SPEC.	
	H	STOCK SIZE	

REQ. PER UNIT	PROJECT NO.	ASSY. NO.	DATE
1			6-8-59
1			1-10-58
1			1-10-58

REQ. PER UNIT	PROJECT NO.	ASSY. NO.	DATE
1			6-8-59
1			1-10-58
1			1-10-58

MO-110 B

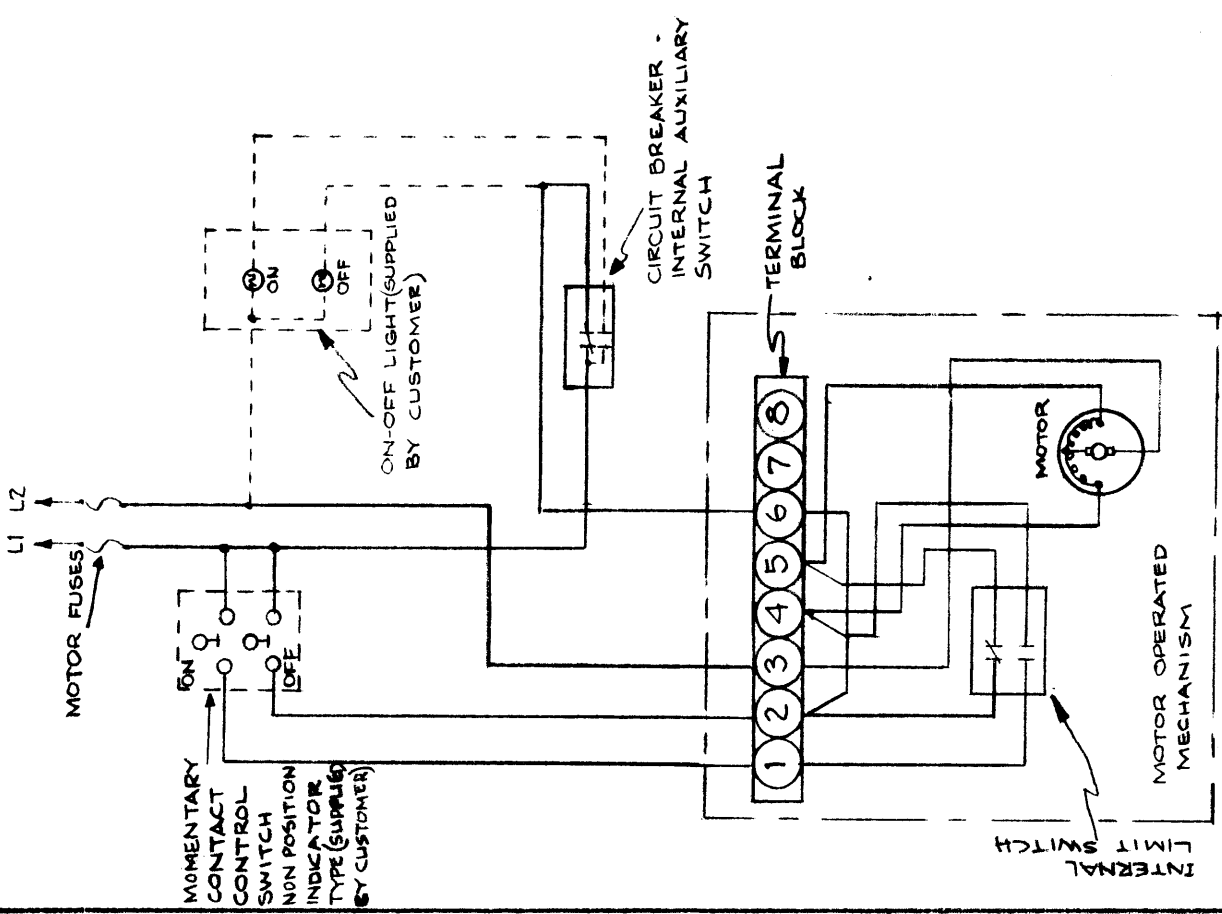
ELECTRICAL SPECS.
VOLTS ~ 240 AC
AMPS ~ 5

MECHANICAL SPECS.
FRAME: JK

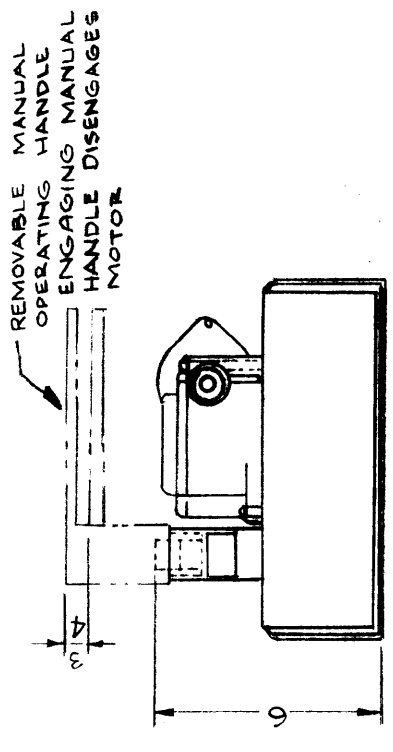
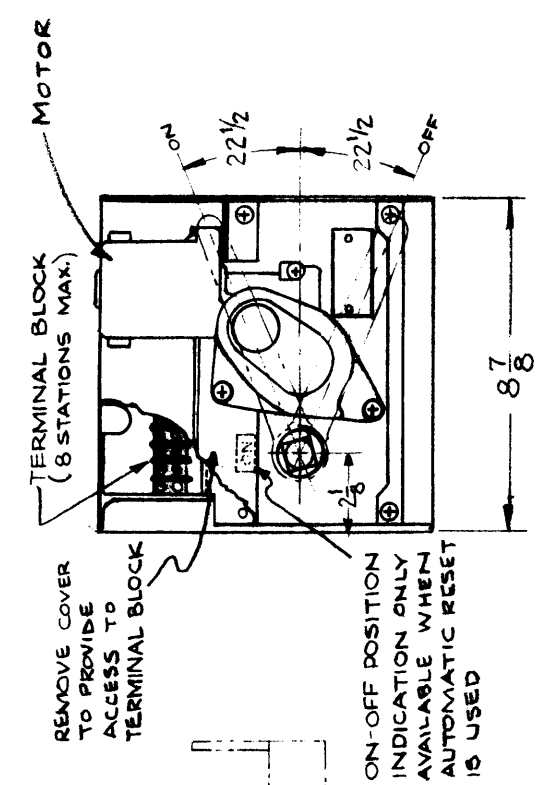
REF: FOR USE w/ SW-271

DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
CONTROL, CIRCUIT BREAKER, MOTORIZED	
APPROVED <i>[Signature]</i>	DRAWN <i>[Signature]</i>
CHECKED <i>[Signature]</i>	FINAL APPROVAL
ELEC. DES. APP. MECH. DES. APP.	MO-110 B

TRIANGLE LITHOPRINT CO., INC. 38289



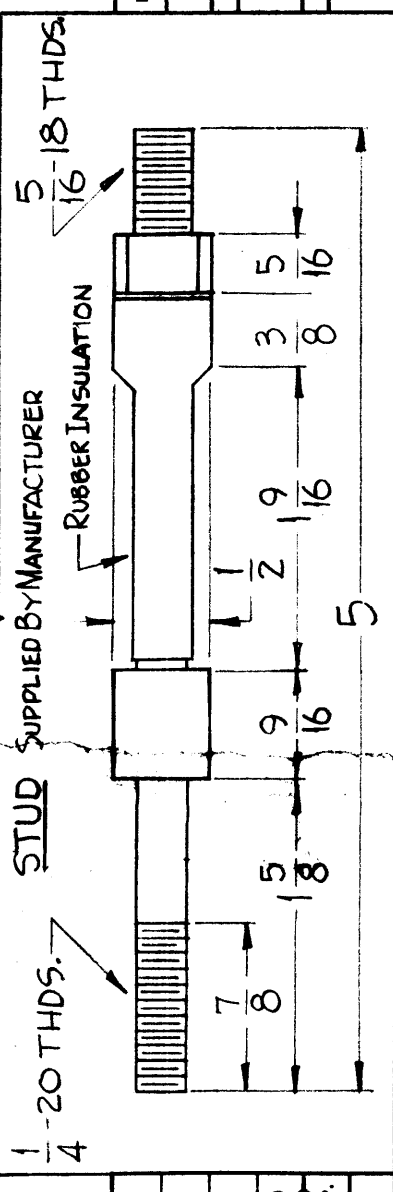
— SCHEMATIC DIAGRAM —



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THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK



REG. PER UNIT	PROJECT NO.	ASSY. NO.	DATE
1			1-9-60

ITEM	QTY.	CH. NO.	DATE	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
1	1	11286	9-21-64				AMB	
1	1	3596	11-29-60				WJ	

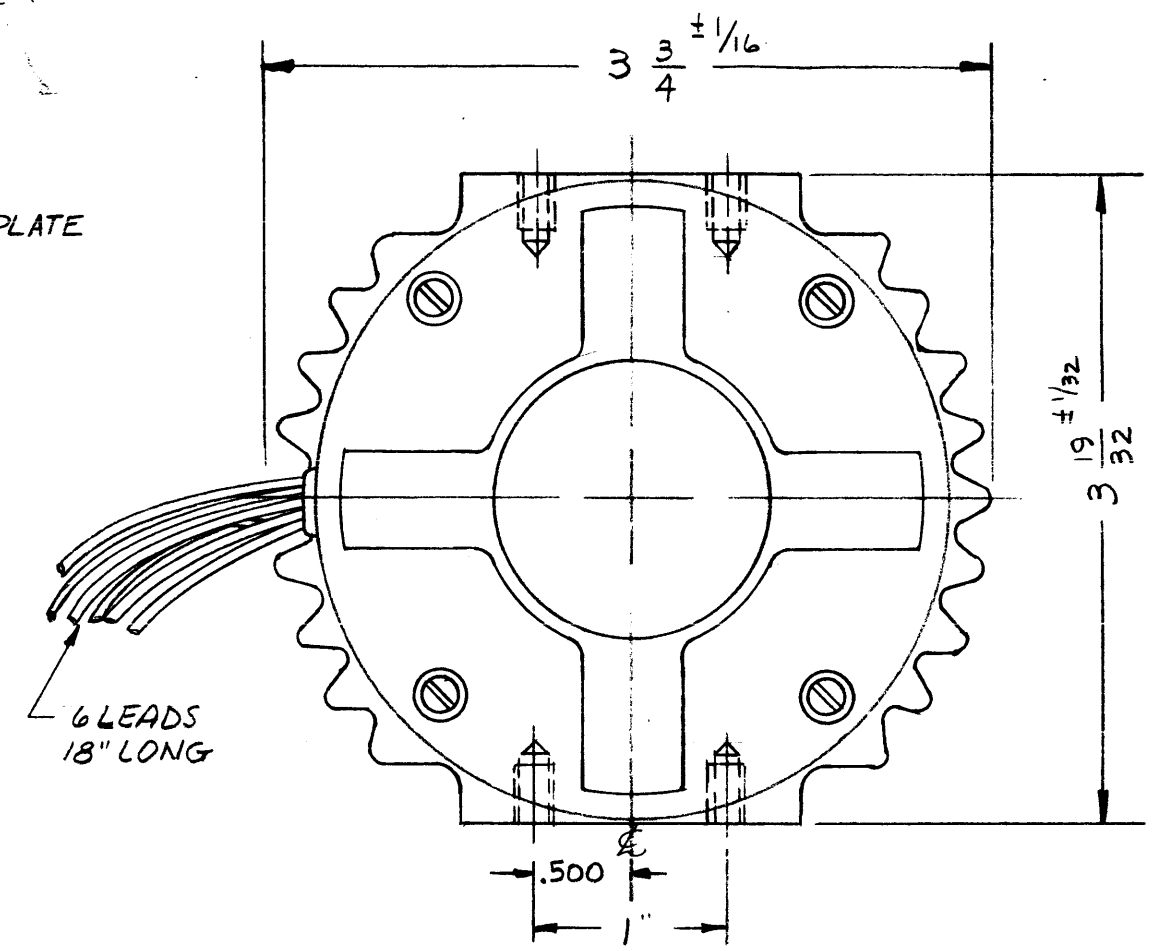
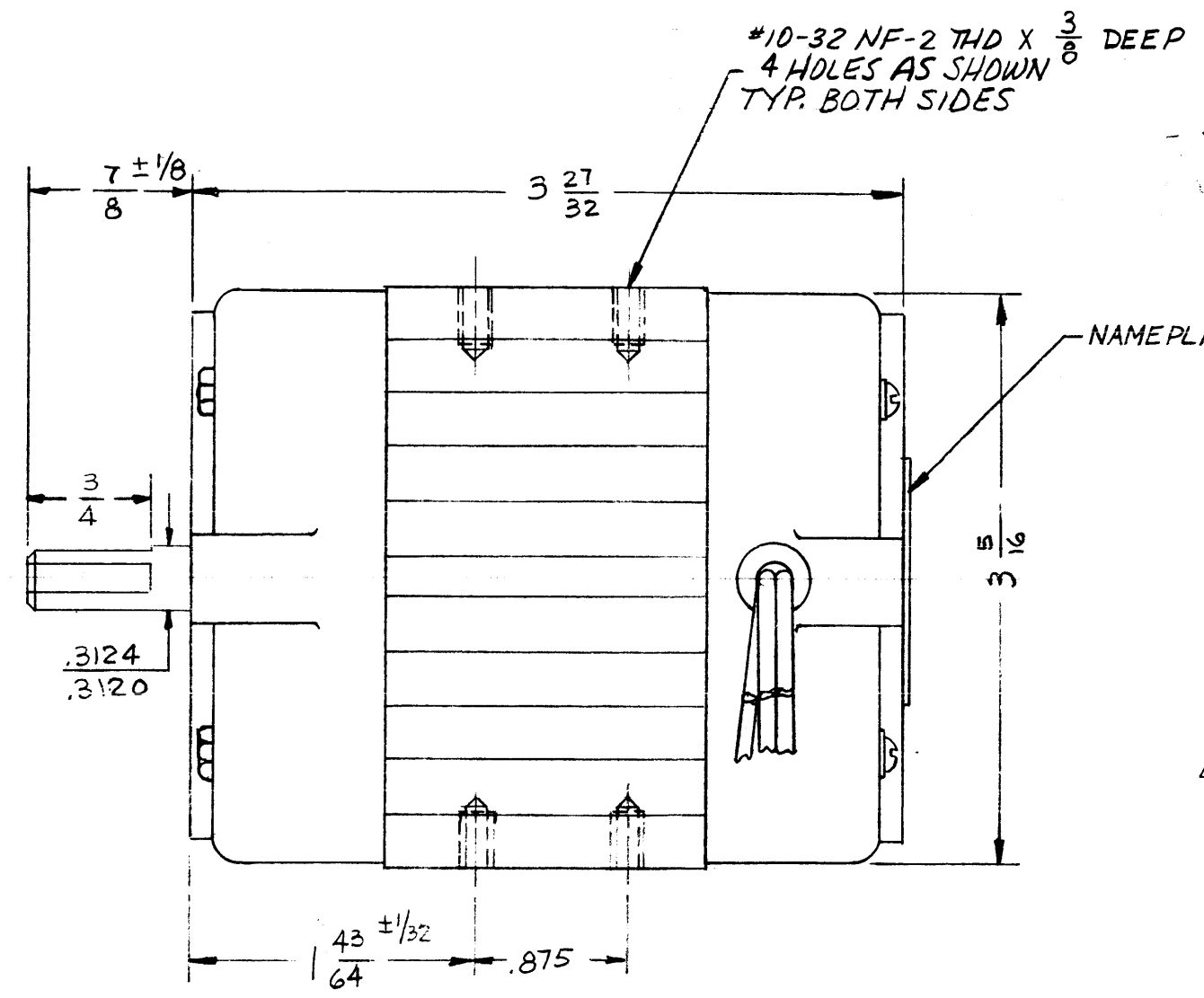
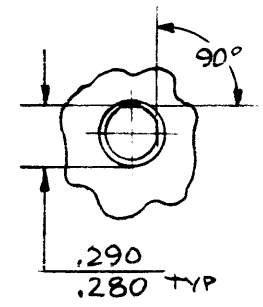
SCALE: 5/401-88 (ET-9216)

TOLERANCES
±

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MO-111



NOTE:
THIS MOTOR IS FOR SPARE PARTS,
USE AS REPLACEMENT MOTOR FOR TMC
CENTRIFICAL FAN NO. BL-103

ELECTRICAL DATA
ROTATION SHAFT END - CW
VOLTAGE - 115/230 V
CPS - 50/60
RPM - 2850/3200
AMPS - 1.1/0.55
PHASE - 1

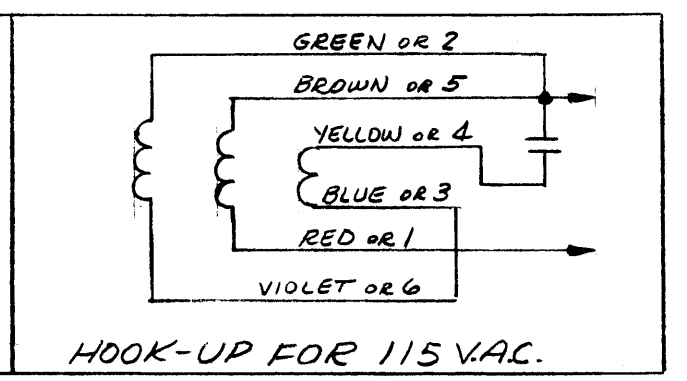
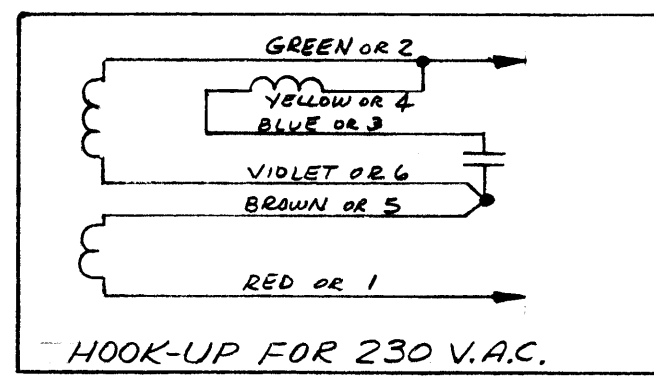
FINISH
BLACK ANODIZE

NOTICE TO PERSONS RECEIVING THIS DRAWING

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Property of:

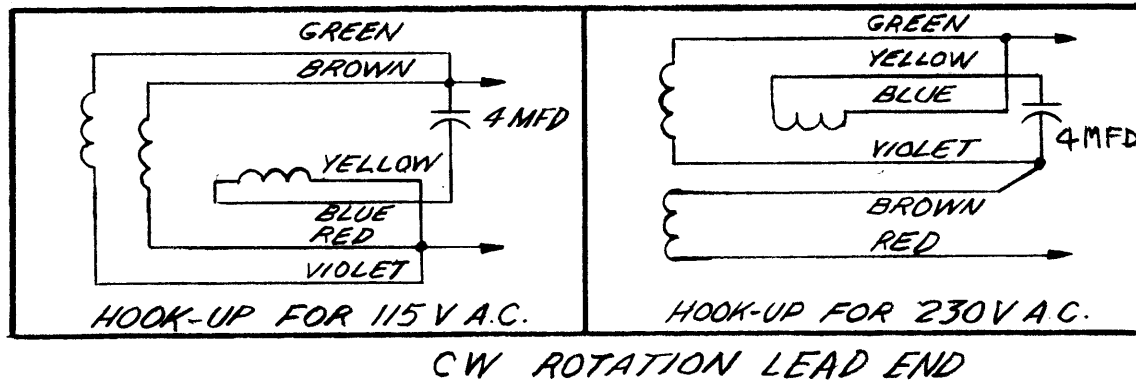
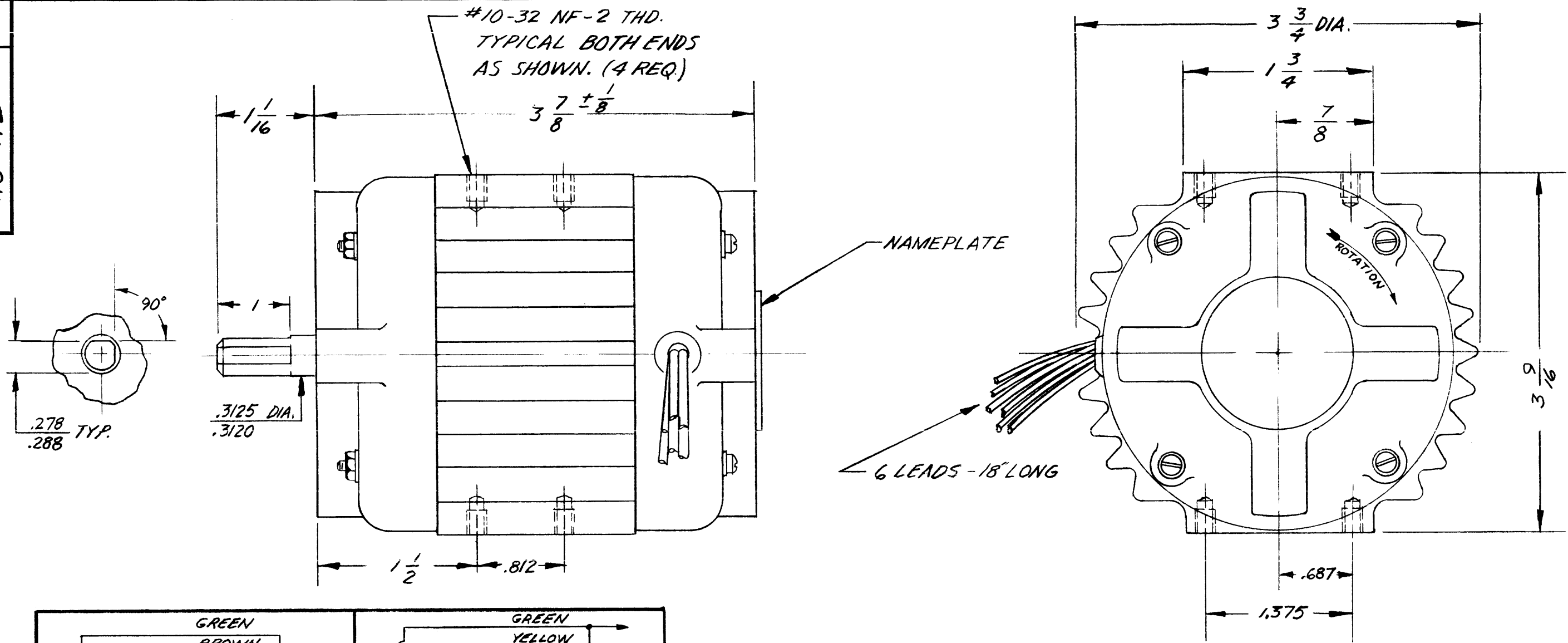
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK



SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	.3124 WAS .3150 & +/- 1/8 ADDED TO 7/8 .3120 WAS .3148	11-9-61	18604	HEJ	MM	EFM
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS +/- 1/64 DECIMALS +/- .005 ANGLES +/- 1/2°						
SCALE: S&C-116 (BC 2918-3)						
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES						
REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE		
	RFD-1A			11-18-61		
USED ON						

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
MOTOR, CENTRIFICAL, FAN			
MATERIAL			
FOR BL-103			
TYPE & TEMPER		HEAT TREAT. SPEC.	
DRAWN		CHECKER	FINAL APPROVAL
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.
		AB	MMT
		LS	OR
			MO-111
			A

MO-112



ELECTRICAL DATA

VOLTAGE 115/230 V.

CPS 50/60 CY.

RPM 2900-3400 RPM

AMPS 1.0/0.5 A.

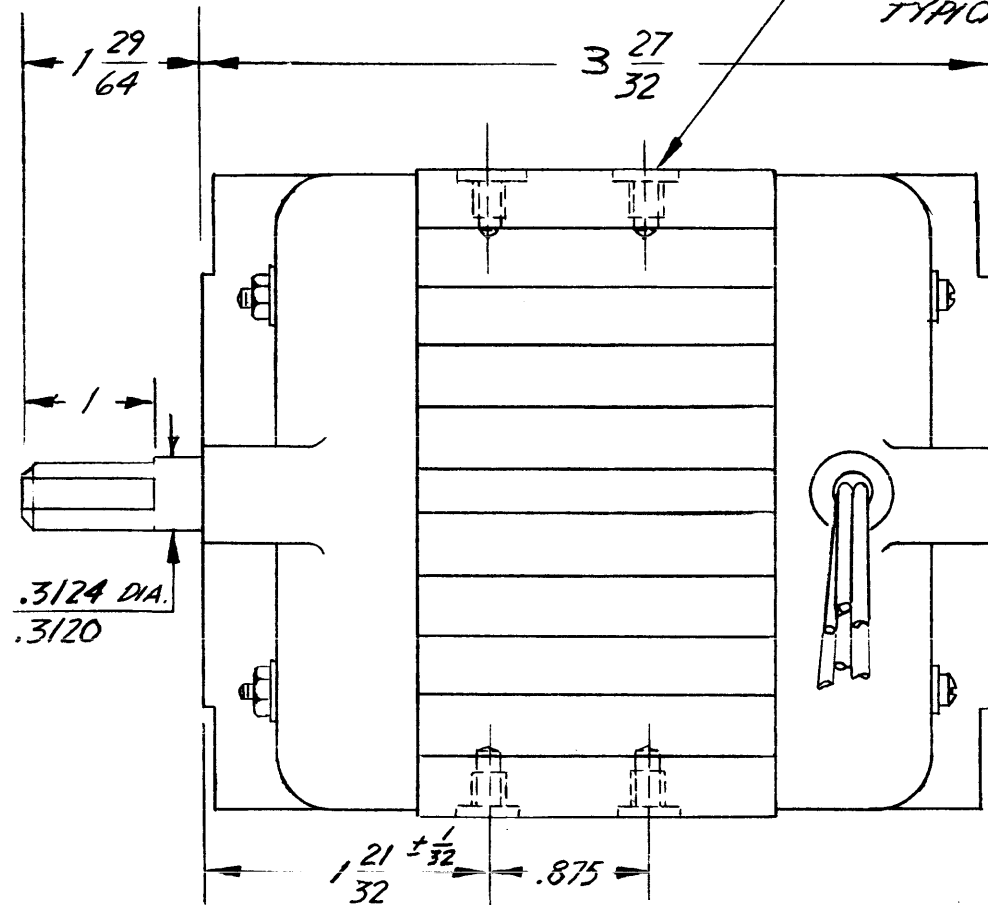
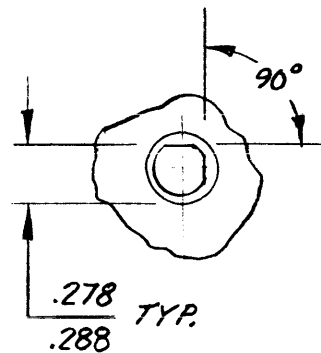
PHASE 1

NOTE: THIS MOTOR IS FOR SPARE PARTS REPLACEMENT PURPOSE FOR TMC AXIAL FAN NO. BL-108.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
UNLESS OTHERWISE SPECIFIED:		SCALE: 6401-116 (BC 2922-6)				
DIMENSIONS ARE IN INCHES		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.				
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°		REMOVE ALL BURRS AND SHARP EDGES				
C		1				
		REQ. PER UNIT				
		MODEL SECTION ASS'Y. NO. DATE				
		USED ON				

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
STOCK SIZE			MOTOR, CENTRIFICAL FAN, FOR BL-108	
MATERIAL				
		wh	AD	SFM
TYPE & TEMPER		HEAT TREAT. SPEC.	DRAWN	CHECKER
			QB	10
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.	MO-112

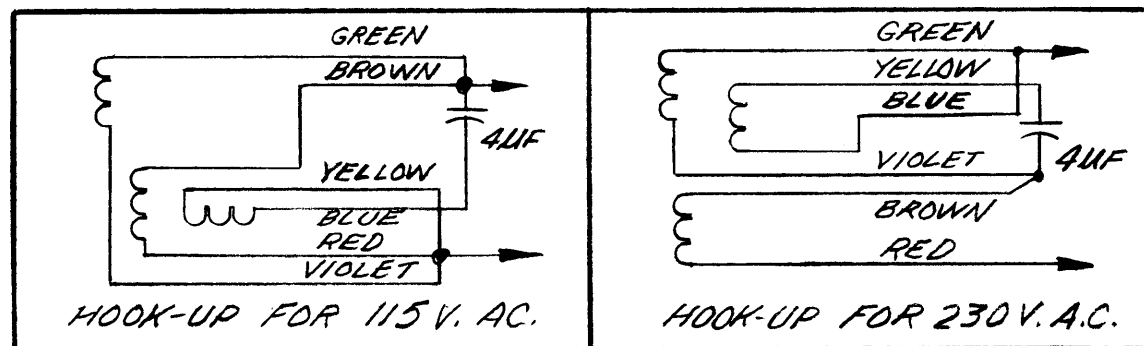
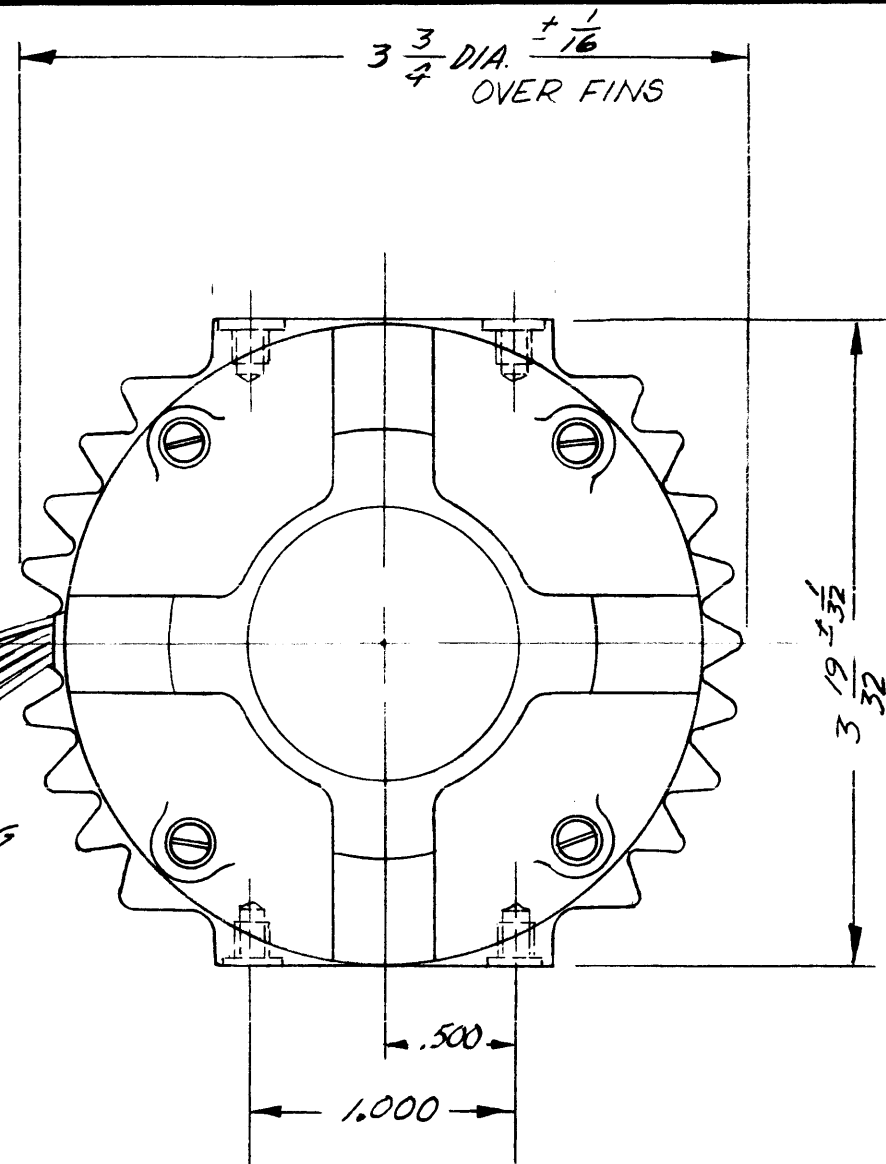
MO-113 A



10-32 NF-2 TAP $\frac{1}{4}$ DEEP
C'BORE $\frac{9}{16}$ DIA. X $\frac{1}{16}$ DEEP
TYPICAL BOTH SIDES AS SHOWN.
(4 REQ.)

NAMEPLATE

6 LEADS - 18" LONG



CONNECTION DIAGRAM CLOCKWISE ROTATION LEAD END

ELECTRICAL DATA
VOLTAGE 115V/230V
CPS 50/60 CY.
RPM 3400 RPM
PHASE 1
LINE CURRENT 1.0/0.5 A.

NOTE: THIS MOTOR IS FOR SPARE PARTS REPLACEMENT PURPOSES FOR TMC AXIAL FAN NO. BL-105.

SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
A	ADDED BL-105 ON USED ON CHART LINE CURRENT ADDED, MFR NO WAS BC 2922-B ON ELEC. DATA VOLT. WAS 115V., RPM WAS 1650 DIMS CLARIFIED	7-10-63	9493		J.P.	J.P.P.
UNLESS OTHERWISE SPECIFIED:		SCALE: S40-116 (BC 2922-F10)				
DIMENSIONS ARE IN INCHES		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.				
TOLERANCES ON FRACTIONS $\pm 1/64$ DECIMALS $\pm .005$ ANGLES $\pm 1/2^\circ$		REMOVE ALL BURRS AND SHARP EDGES				

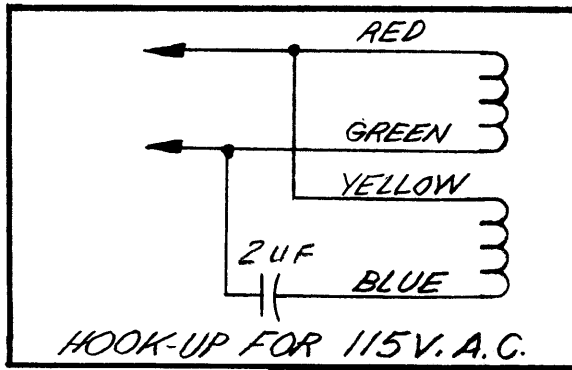
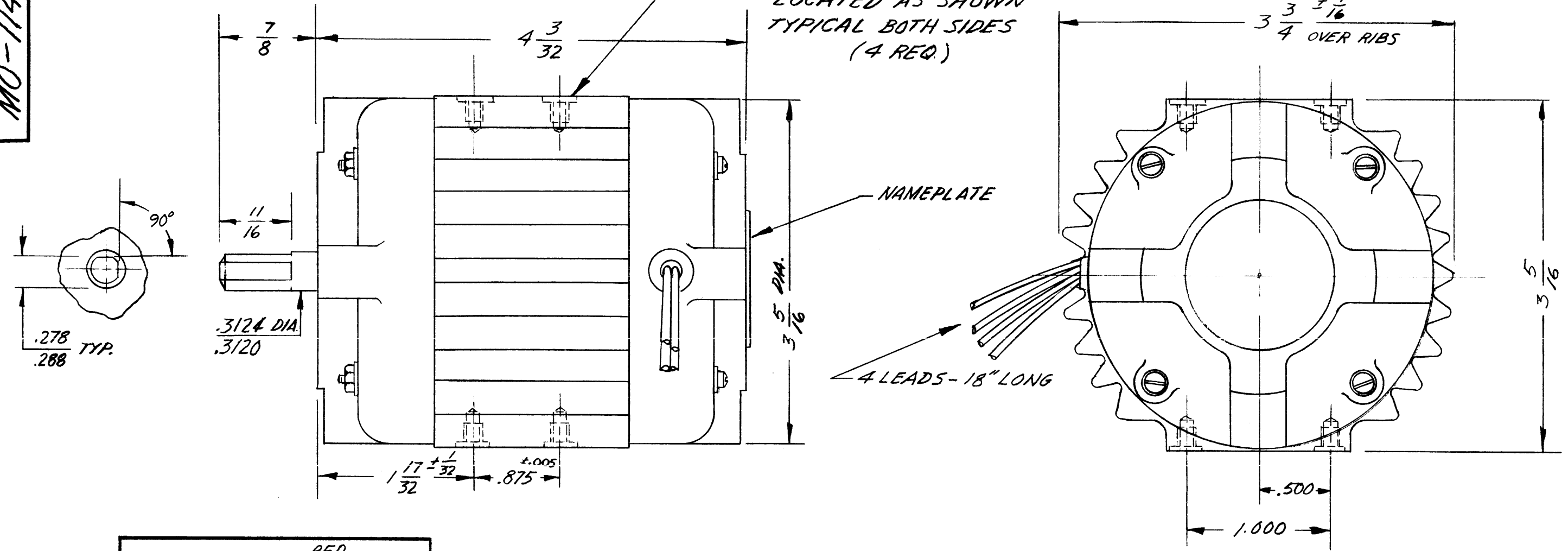
REQ. PER UNIT	1	BL-105	SECTION	ASS'Y. NO.	DATE
USED ON					

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			STOCK SIZE	
			MOTOR, FAN FOR BL-105	
			MATERIAL	
			TYPE & TEMPER	
			HEAT TREAT. SPEC.	
			DRAWN	CHECKER
			FINISH & SPEC. NO.	ELEC. DES. APP.
				MECH. DES. APP.

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MO-114

10-32 NF-2 TAP $\frac{1}{4}$ " DEEP
C'BORE $\frac{9}{16}$ " DIA. X $\frac{1}{16}$ " DEEP
LOCATED AS SHOWN
TYPICAL BOTH SIDES
(4 REQ.)



CONNECTION DIAGRAM C.W.
ROTATION LEAD END

ELECTRICAL DATA
VOLTAGE 115V.
CPS 50/60CY.
RPM 1650RPM
PHASE 1
AMPS 0.25A

NOTE: THIS MOTOR IS FOR SPARE PARTS REPLACEMENT PURPOSES OF TMC AXIAL FAN BL-101.

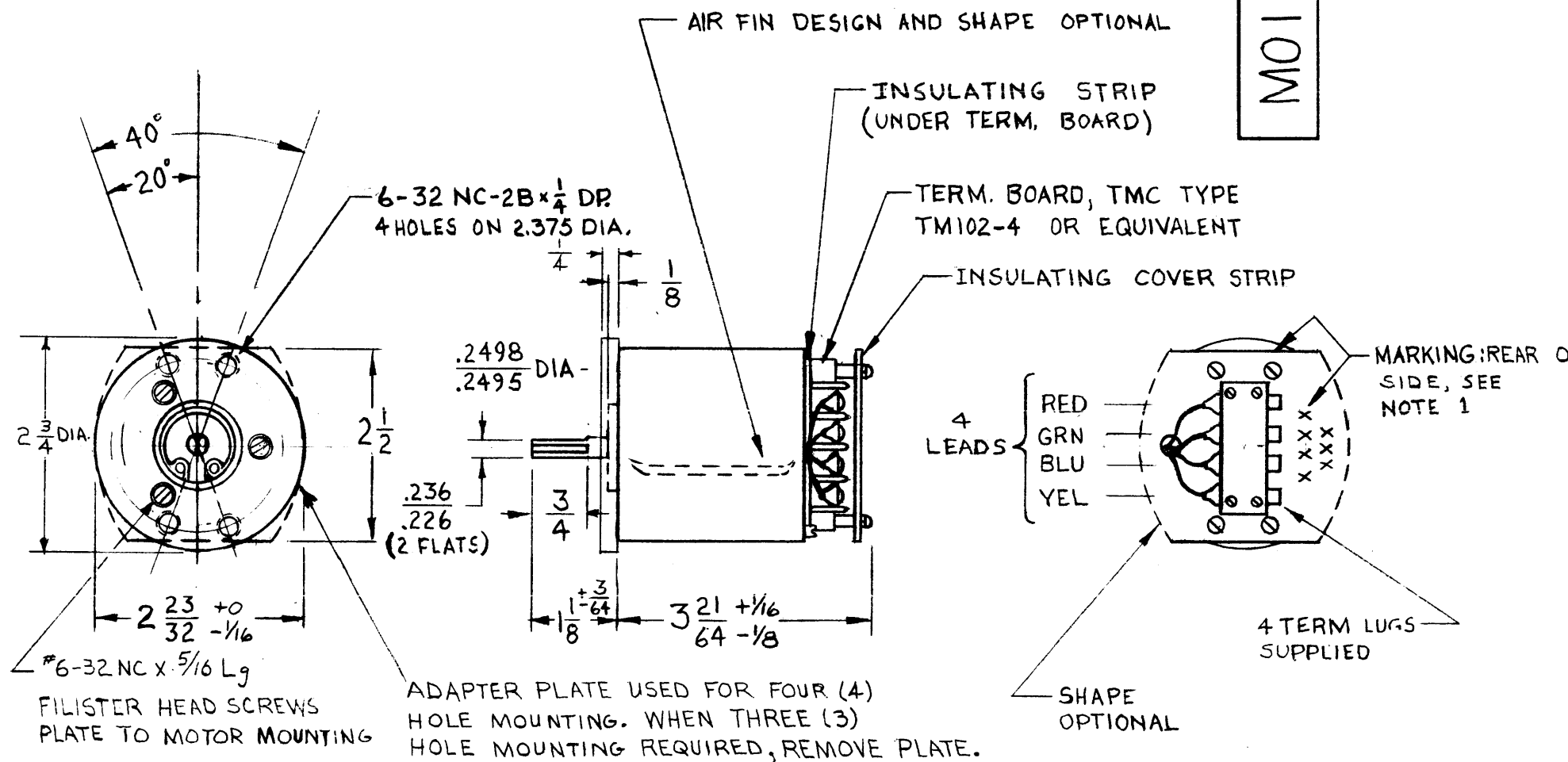
SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
	UNLESS OTHERWISE SPECIFIED:					
	DIMENSIONS ARE IN INCHES					
	TOLERANCES ON FRACTIONS $\pm 1/64$ DECIMALS $\pm .005$ ANGLES $\pm 1/2^\circ$					
		SCALE: S401-116/BC2915-5				
		MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES				

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE

REQ.	ITEM	PART NO.	DESCRIPTION	YMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			MOTOR, FAN FOR BL-101	
			W.R. J.H.Q. E.P.M.	
			DRAWN CHECKED FINAL APPROVAL	
			MO-114	

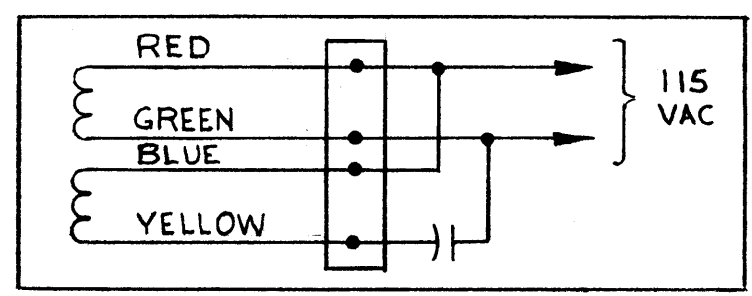
TMC PART NO.	TMC CONTROL NO.	MFRS. CODE	MFRS. PART NO.
MO115	MO115XX116	S401-116	BC2210-1-1

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
A	REDRAWN & REVISED	9-30-64	12473	28	KS	CS
B	ADDED ADAPTER PLATE & NOTE, ADDED REAR SIDE TO MARKING. DELETED PART OF NOTE 1.	7-26-64	16644	RME	CS	KS



SPECIFICATIONS

- VOLTAGE: 115
- PHASE: SINGLE
- FREQUENCY: 50/60 CPS
- NOMINAL RPM: 3400
- RUNNING CAPACITOR: 1 UF, 220VAC
- HP: 1/50
- FULL LOAD WATTS: 39
- AMBIENT TEMP: 70°C
- ROTATION: CCW VIEWED FROM TERM. BD. END
- MECHANICAL DATA
 - MATERIAL: CAST ALUMINUM HOUSING
 - FINISH: BLACK ANODIZE



WIRING DIAGRAM

- NOTES:
- MANUFACTURER SHALL MARK ITEM WITH APPROPRIATE TMC CONTROL NO., AS SHOWN IN CHART, AND SPECIFICATION NUMBERS 1,2,3,4,5. MARKING SHALL BE APPROX. 3/32 HIGH GOTHIC, LOCATED AS SHOWN.
 - FOR SPARE PARTS REPLACEMENT OF REPAIRABLE PARTS, SEE TMC LIST ERPL-BL102.

STANDARD	BL102XX116
Q'TY./UNIT	MODEL USED ON
SCALE	CODE
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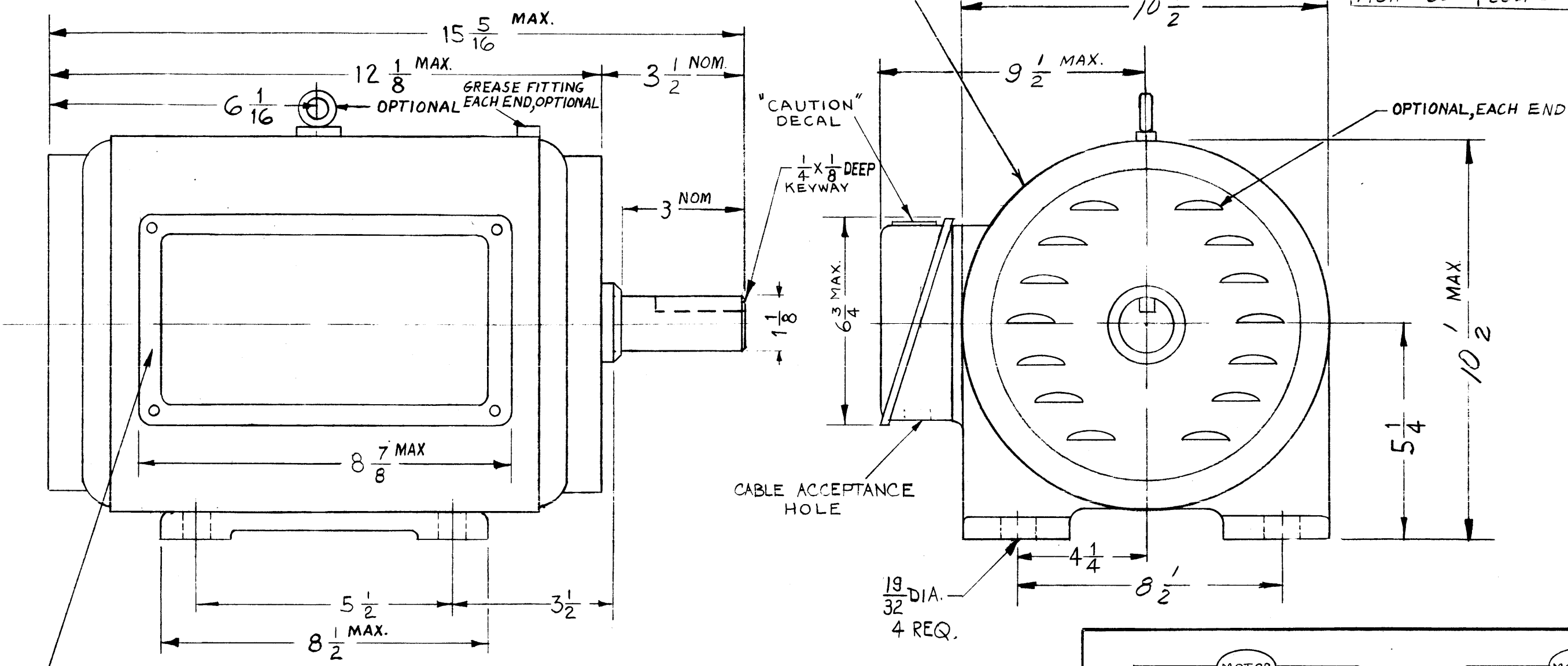
REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
J. CAMARDA LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE MOTOR, AC FOR BL102	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN <i>J. Swara</i>	DATE 9-30-64	FINAL APPROVAL <i>[Signature]</i>
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED <i>[Signature]</i>	DATE 11-16-64	DATE
FRACTIONS ± 1/64 ANGLES ± 0° 30'		ELECT. DES. <i>[Signature]</i>	DATE 10/12/64	DATE
TOLERANCES		MECH. DES. <i>[Signature]</i>	DATE 10/22/64	DATE
NOTES			M0115	B
			SHEET	REV. LTR.

STANDARD DRAWING

MO 117 D

NOTE:
THIS MOTOR IS FOR SPARE PARTS REPLACEMENT
FOR TMC CENTRIFUGAL FAN BL 110.

TMC P/N	FREQ.	FINISH
MO117-50	50CPS	GRAY
MO117-60	60CPS	BLACK

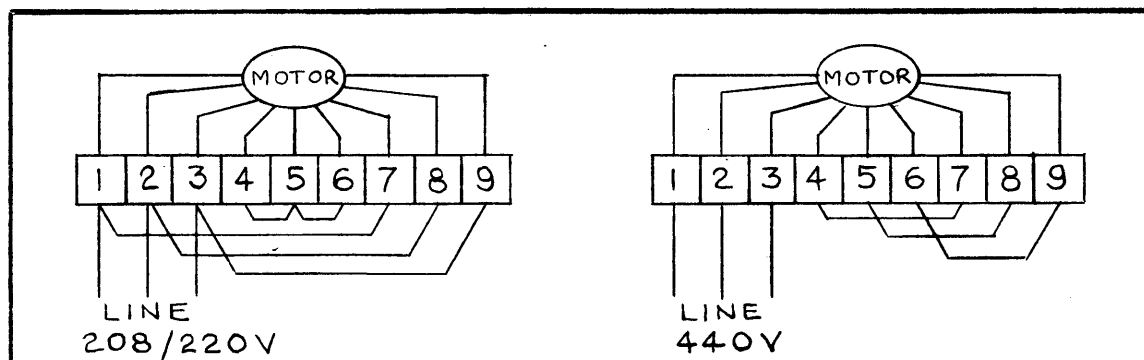


Barrier type terminal board with 9 double screw (10-24 thread) Terminals and connection diagrams inside box.

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SYM	DESCRIPTION	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
D	COMPLETELY REVISED, MFG P/N WAS SK-336	4-14-67	18108	L.A.K.		
C	TMC P/N CHART ADDED	1/14/66	1535	X.V.V.		
B	CARRYING RING ADD. TO MOTOR CASE	9-16-64	12347	WB		
A	PICT. REVISED, TERM. BOARD NOTE #8 3/4" ADD. ADDED: CAUTION DECAL NOTE #6 3/4" MAX. DIM. ADDED CONEC. DIAGRAMS, DELE. 6 5/8" DIM.	4-3-64	11170	WB		

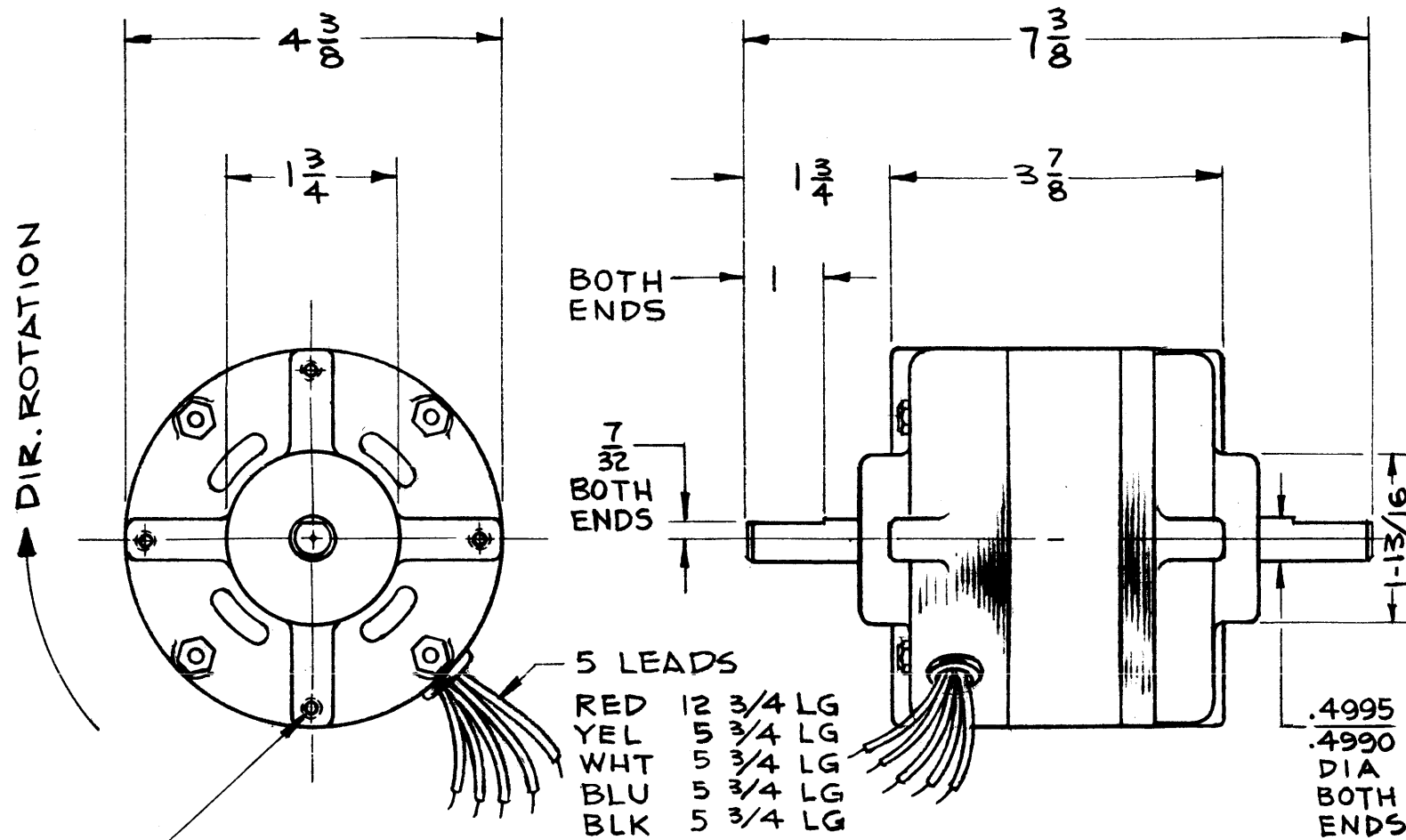
UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1/2°

SCALE: S401-116 (98-1-1)
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.
REMOVE ALL BURRS AND SHARP EDGES

REQ. PER UNIT	MODEL	SECTION	ASS'Y. NO.	DATE
	GPT-40K			11-20-61

USED ON

REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
			MOTOR, CENTRIFUGAL, FAN FOR BL 110	



10-32NF-2 TAP
ON 3.875 B.C.
(4 PLACES)
ON BOTH ENDS

NOTES:

1. CAPACITOR, NOT SUPPLIED
BY MANUFACTURER.

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MAMARONECK, NEW YORK

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
NO SCALE	CODE	S-401-116 BC3810B-4 MOTOR ONLY

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NOTES

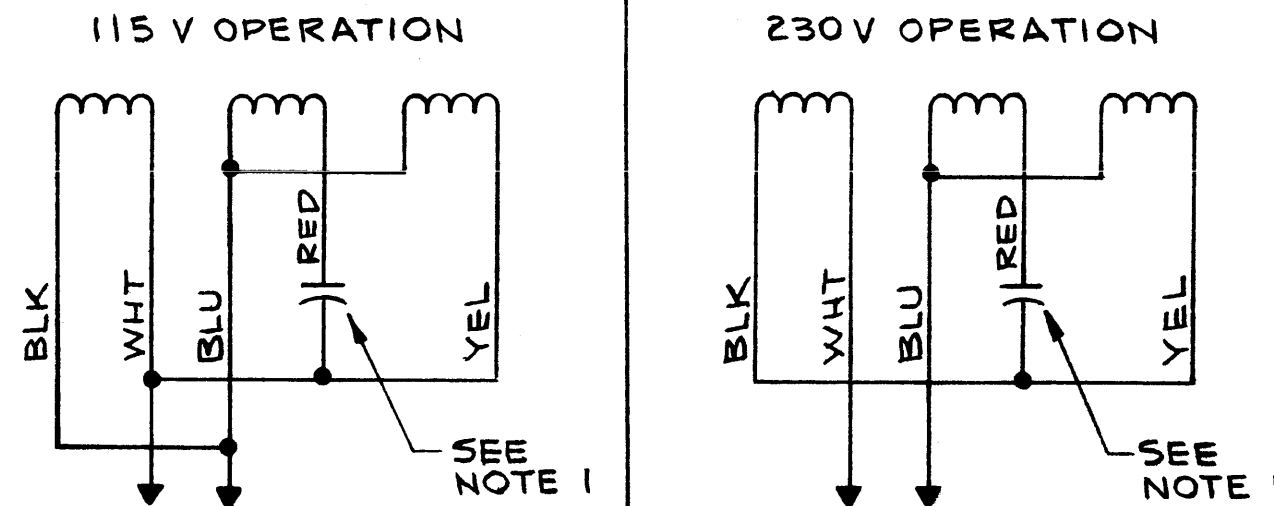
REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
-----	-------------	------	------------	-------	------	------

SPECIFICATIONS

VOLTAGE: --- 115 / 230 VAC
CURRENT: --- 1.2 / 0.6 AMPS
FREQUENCY: --- 60 CPS
PHASE: --- SINGLE
RPM: --- 1725 NOMINAL

WIRING DIAGRAM



CAUTION NOTE

THIS MOTOR SHOULD NOT BE REPLACED INDIVIDUALLY UNLESS IT IS BALANCED WITH ITS ASSOCIATED IMPELLERS IN THE ASSEMBLY IN WHICH IT WILL BE INSTALLED.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
--------	------	-------------	-------------	--------

LIST OF MATERIAL

MATERIAL	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK
FINISH	TITLE

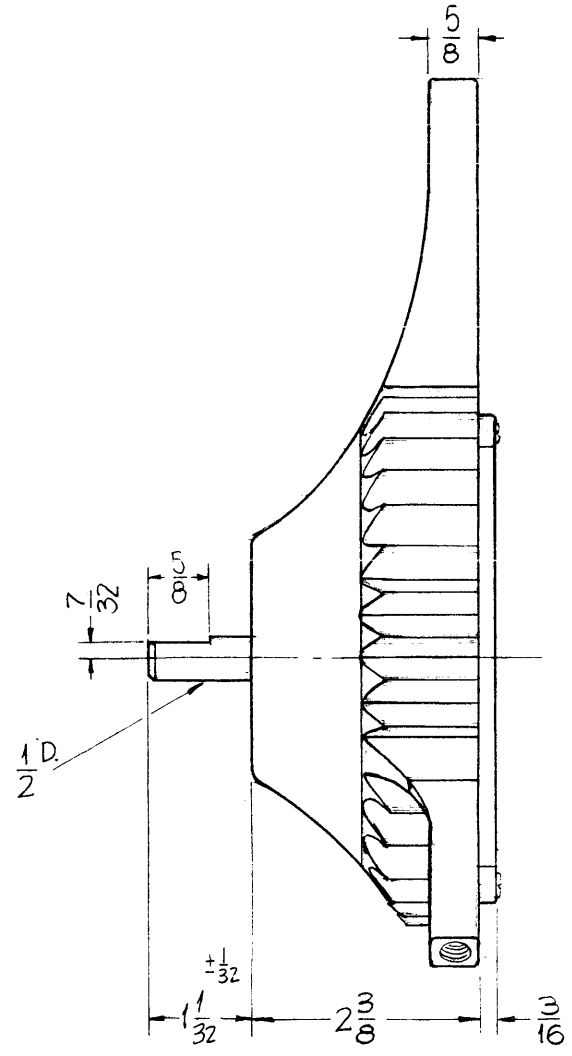
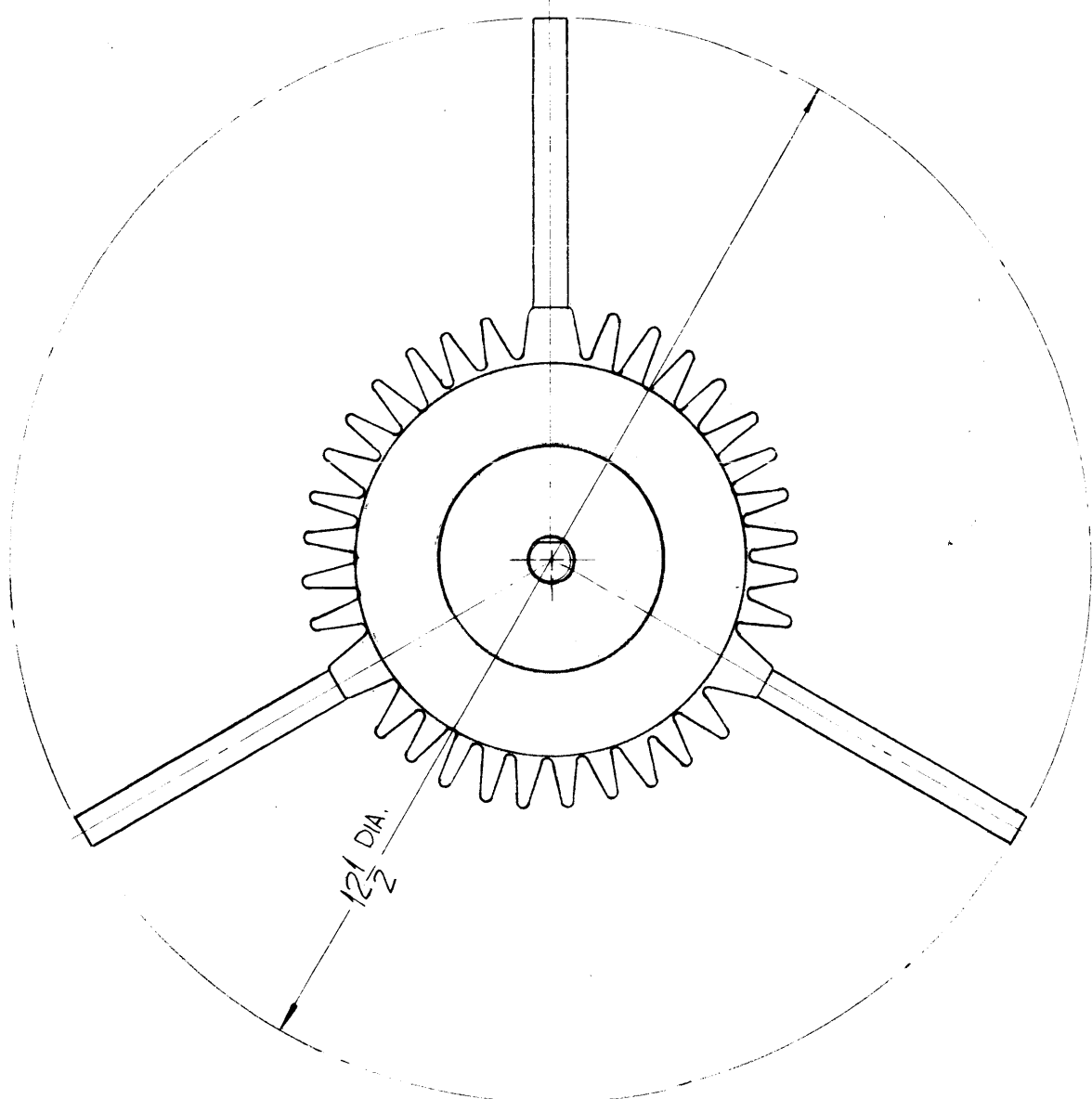
MOTOR, INDUCTION
(FOR BL-112)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DRAWN <i>gmy</i>	DATE 1-14-63	FINAL APPROVAL <i>[Signature]</i>	DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	CHECKED <i>[Signature]</i>	DATE 2-11-63	MO-119	SHEET
FRACTIONS ± 1/64 ANGLES ± 0° 30'	ELECT. DES. <i>[Signature]</i>	DATE 2-11-63		
TOLERANCES		DATE 2-5-63		

MO-120

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
0	ORIGINAL RELEASE FOR PRODUCTION	5-27-64	0	A.M.		



ELECTRICAL SPECIFICATIONS:

REF: TMC DWG-BL-116
REF: IMC MAGNETICS CORP (PART NO. SK-485)

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
F. BUDETTI LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE MOTOR, TUBEAXIAL FAN	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN <i>Gianfilippo</i>	DATE 7-19-63
			CHECKED <i>aa</i>	DATE
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			ELECT. DES. <i>MB</i>	DATE
			MECH. DES. <i>MB</i>	DATE <i>06/24/64</i>
TOLERANCES			FINAL APPROVAL <i>[Signature]</i>	DATE
FRACTIONS ± 1/64 ANGLES ± 0° 30'			MO-120	
			SHEET	REV. LTR. ○

GPT-200K		
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE	

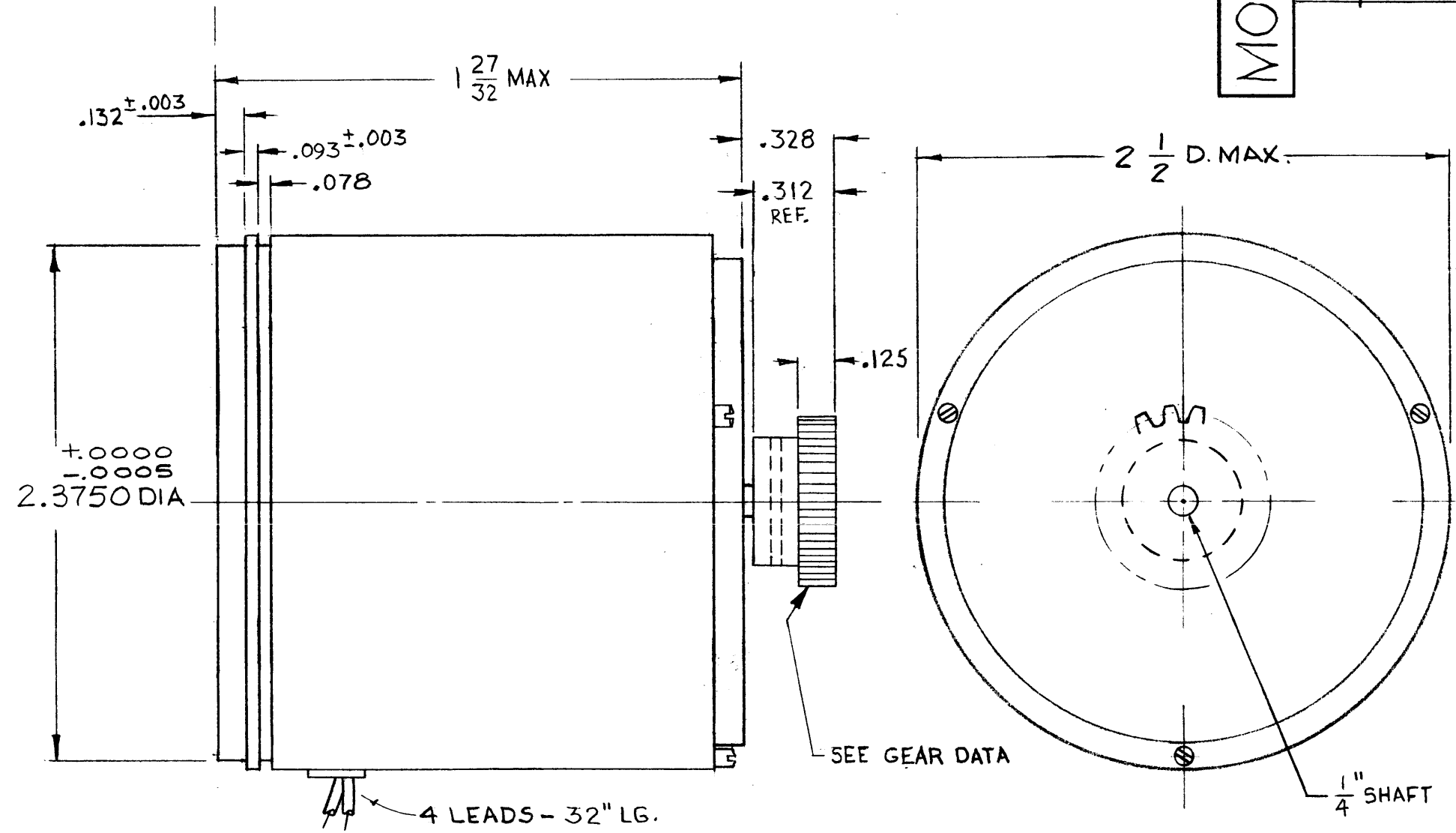
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NOTES

TMC P/N	MFG. MOTOR P/N	GEAR DATA							
		PITCH	NO. OF TEETH	P.D.	O.D.	PRESSURE ANGLE	CLASS	U/O	ASSY
MO122-1	BC2207-1	48	26	.5416	.583 ^{+.000} _{-.002}	20°	PREC. I.D.	HFRR-2	A3533
MO122-2	BC2207-2	48	20	.4166	.4583	20°	PREC. I.D.	CHGR-3	A4168

REVISIONS					
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD APPD
X	EXPERIMENTAL RELEASE	4.9.64	#	JSB	@
Ø	ORIGINAL RELEASE FOR PRODUCTION	8-13-64	#	Seh	
A	PICT. REVISED; SCHEM. ADD; GEAR DATA CHART DELE; TMC P/N CHART ADD; ELECT. SPECS. REVISED; GEAR MATERIAL NOTE ADD; CALLOUT 1/4" SHAFT ADD; S104 PAS. ADDED	2.10.65	13448	2Z	<i>[Signature]</i>
B	TMC P/N CHART; -1 & -2 ADD. TO MFG. COL; U/O & ASSY COLS. ADD; "ROTATIONAL TEST" ADD. TO NOTE & NOTE RELOC.	3.4.65	13621	DL	<i>[Signature]</i>

MO122



AT 60 CPS AT 25° C

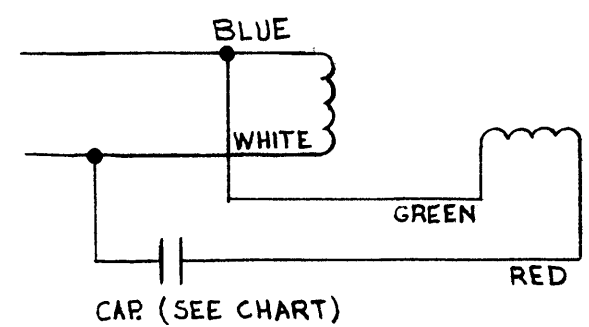
MOTOR TORQUE CHART
BC 2207-1 BC2207-2

CAP	NO. LOAD SPEED RPM	WATTS	RUNNING TORQUE	START TORQUE
4uf	1755	27W	70Z IN / RPM / 31W	60Z IN

ELECTRICAL SPECS.

115V ± 10% 50/60 cps.
1 PH. INT. DUTY.

GEAR MATERIAL
416 STAINLESS ST. (S104-PASSIVATE)
ROCKWELL HARDNESS 26-32



ROTATIONAL TEST:
FOR CCW ROTATION
FROM SHAFT END.

NOTES

STANDARD DRAWING

1	HFRR-2	A3533
Q'TY./UNIT	MODEL USED ON	ASSY. NO.
DO NOT SCALE	C	S401-116

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REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
T. KRUY LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE	
ANODIZE (BLACK) (CASE ONLY)			MOTOR, INDUCTION	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			DRAWN <i>Adonis</i>	DATE 2-27-64
			CHECKED @	DATE 3-5-64
			ELECT. DES.	DATE
			MECH. DES. T. KRUY	DATE 2-17-64
			FINAL APPROVAL	
			MO 122	
			SHEET	
			REV. LTR.	

STANDARD DRAWING

SPECIFICATIONS

MOTOR CONTROL :

FREQUENCY, C.P.S. _____ 50/60
 STALL TORQUE, OZ. IN. _____ 1.5
 NO LOAD SPEED, R.P.M. _____ 3200
 MAX. POWER OUTPUT, WATTS _____ 1.1
 TORQUE AT MAX. POWER OUTPUT, OZ. IN. _____ 0.9
 SPEED AT MAX. POWER OUTPUT, R.P.M. _____ 1600
 WEIGHT, OZ. _____ 7

** TYPICAL ELECTRICAL CHARACTERISTICS		
	FIXED PHASE	CONTROL *PHASE
VOLTAGE, VOLTS	115	40
CURRENT, AMPS	.063	.182
POWER INPUT, WATTS	6.4	6.4

OPERATING TEMPERATURE RANGE -0°C TO + 55°C

- * SERIES CONNECTED
- ** FREQUENCY 60 CY
- ** MEASURED AT STALL AT A WINDING TEMPERATURE OF 25°C

SHAFT GEAR DATA

NO. OF TEETH _____ 37
 DIAMETRAL PITCH _____ 120
 AGMA QUALITY CLASS _____ PRE ID
 PITCH DIAMETER _____ .3083
 OUTSIDE DIAMETER _____ .3250
 PRESSURE ANGLE _____ 20°
 MATERIAL _____ ST STL
 HARDNESS _____ RC 26-32

NOTE:

WHEN FIXED PHASE IS ENERGIZED WITH 115VAC, 60 CYCLE; THE GEAR ASSY. TO MOVE WITH 8 VAC MAX., APPLIED ACROSS CONTROL PHASE."

SHAFT END PLAY- .002 - .005 UNDER 1 POUND ± 1 OZ.
 REVERSING GAUGE LOAD
 1.3120±.0000 DIA. TO BE CONCENTRIC TO ϕ WITHIN .001 T.I.R.

NOTES

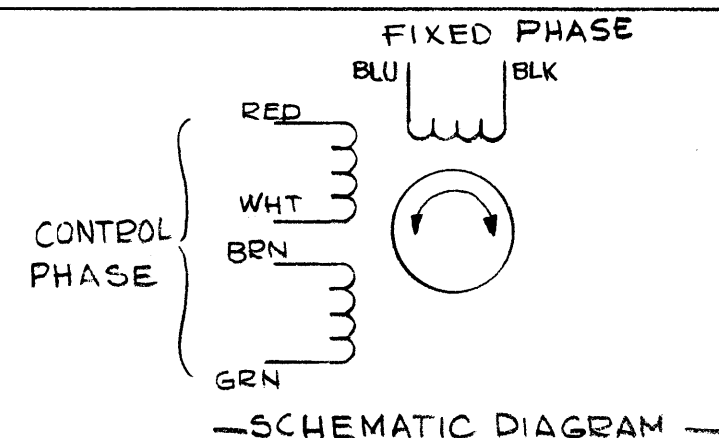
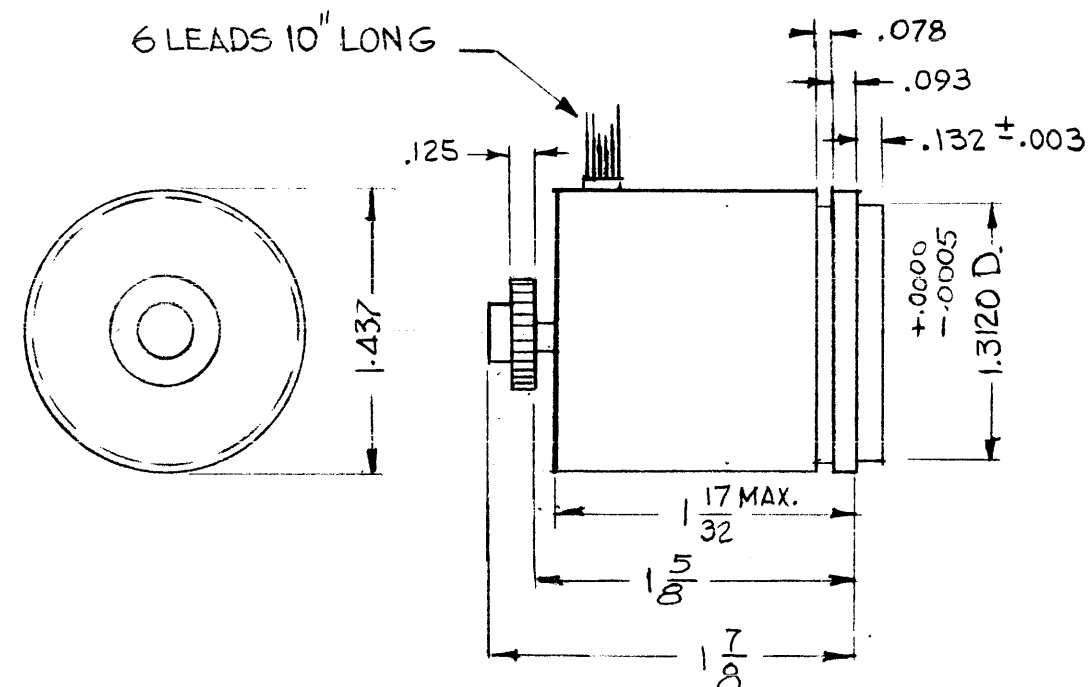
1	HFRR-2	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE 1:1	CODE C	S401-116 (BT1407-12)

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MO123 B

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APFD
	EXPERIMENTAL RELEASE	9-10-64	-	G.D.L.		
Ø	ORIGINAL RELEASE FOR PRODUCTION	9-15-64	Ø	92		
A	NOTE ADDED ELEC CHART DELETE POWER FAC. R, X, Z OHMS EFF - P. UNITY PF. CAP. ON SPEC. DELETE ROTOR INERTIA THEOR. ACCEL.	9/19/65	14467	2V.V.	JCB	MM
B	FINISH WAS ANODIZE (BLK)	6.20.66	16441	W.W.	JCB	92



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
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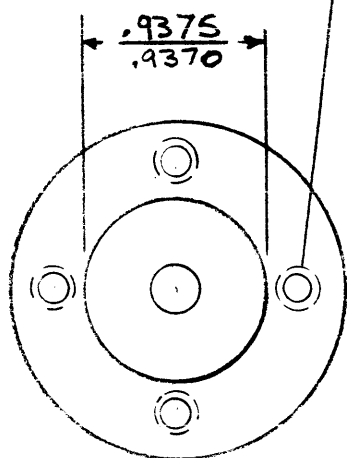
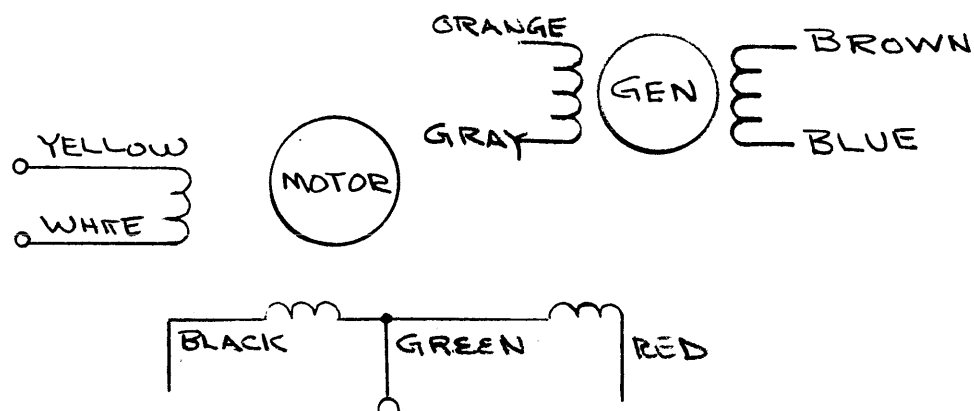
KRUY LIST OF MATERIAL

MATERIAL STAINLESS STEEL TYPE 303
 FINISH S104-PASSIVATE
 TITLE MOTOR, CONTROL, SERVO

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	TOLERANCES ± 1/64 ANGLES ± 0° 30'	DRAWN <i>J. Davis</i> CHECKED <i>Q</i> ELECT. DES. <i>J</i> MECH. DES. <i>T. Kelly</i>	DATE 9-11-64 DATE 9-14-64 DATE 9/14/64 DATE 9/14/64	FINAL APPROVAL <i>RAC</i>	DATE
				MO123	B
				SHEET	REV. LTR.

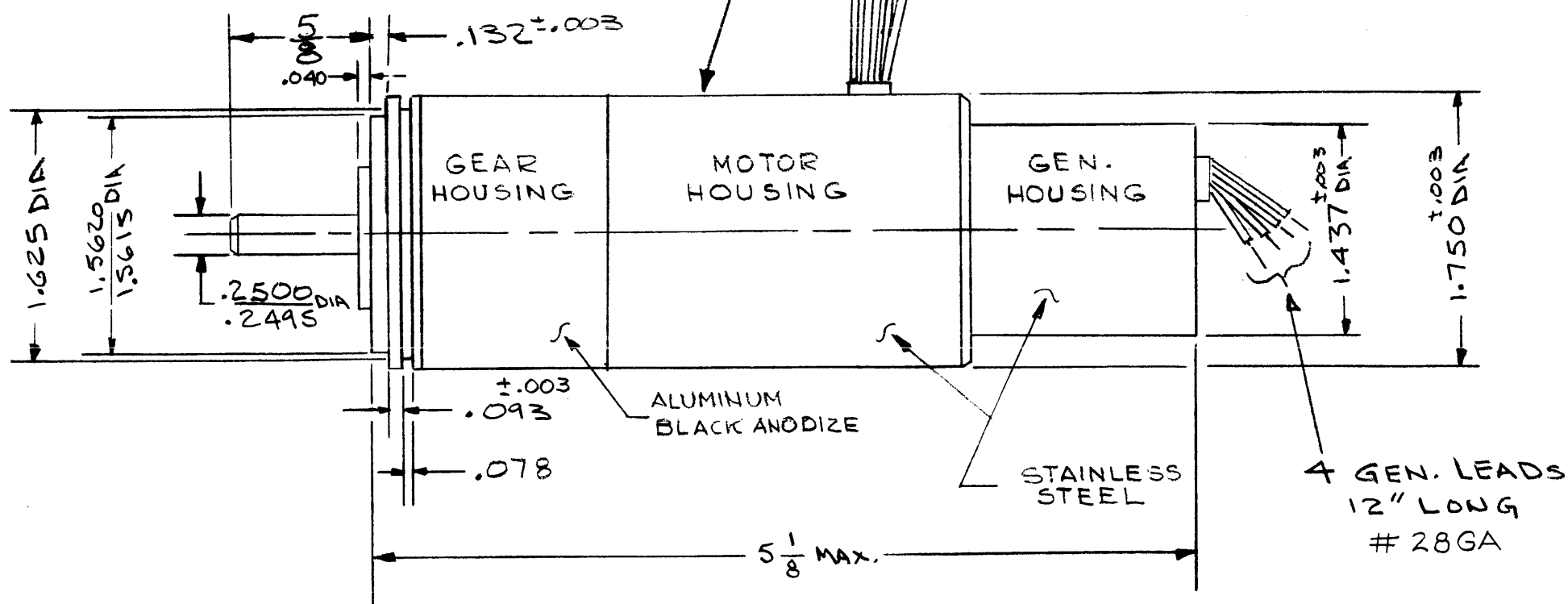
STANDARD DRAWING



(4) #4-40NC2
TAPPED HOLES 3/16
DEEP EQUALLY SPACED
ON 1.250 ± .003 DIA. B.C.

MARK TMC PART NO
W/ LATEST REVISION
ON NAME PLATE

(5) MOTOR LEADS
14" LONG #24 GA



4 GEN. LEADS
12" LONG
#28 GA

MO126

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PROD	10/22/65	Ø			
A	DIM. .2500/.2495 WAS 2.500/2.495 MAT'L NOTES & IDENT. SECS. ADDED	6.6.66	16337	CDL		
B	ADDED #24GA & #28GA TO LEADS	6.3.68	18946	HZ.		FBA

MOTOR CONTROL	
FREQUENCY, C.P.S.	50/60
STALL TORQUE, OZ IN	4.0
NO LOAD SPEED, R.P.M.	3200
MAX. POWER OUTPUT, WATTS	3

TYPICAL ELECTRICAL CHARACTERISTICS	MOTOR		GENERATOR
	FIXED PHASE	CONTROL PHASE	FIXED PHASE
VOLTAGE, VOLTS	220 ± 10%	36	26
CURRENT, AMPS	.067	.330	0.121
POWER INPUT WATTS	10.3	8.3	286

MEASURED AT STALL AT A WINDING TEMP. 25°C

ADDITIONAL GENERATOR INFORMATION

OUTPUT GRADIENT, VOLTS 1000 R.P.M. 1.0 MIN
NULL VOLTAGE, VOLTS (MAX. R.M.S.) .015

AMBIENT TEMPERATURE RANGE 0°C TO 70 C

OUTPUT: 60 OZ. IN. AT 50 RPM AT 60 CPS MAX.
OPERATING TORQUE 150 OZ. IN. MOMENTARY
LOAD TORQUE 250 OZ. IN. MAX.

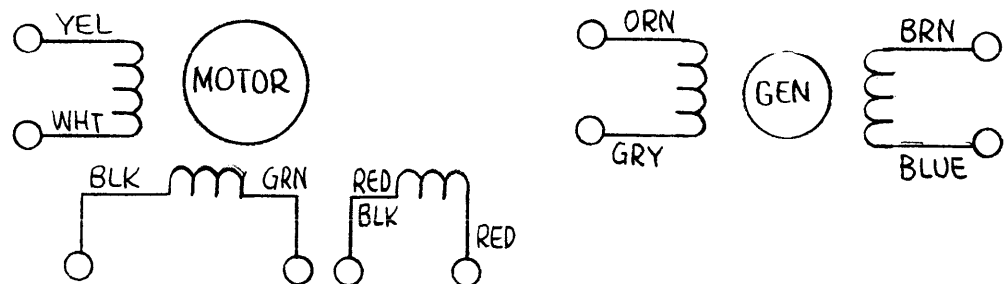
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
2	RFTA-1	
SCALE	CODE	3401-116
DO NOT SCALE		STATOR MAG-2

THE CONTENTS OF THIS DRAWING ARE THE EXCLUSIVE PROPERTY OF THE TECHNICAL MATERIEL CORP. ITS UNAUTHORIZED USE OR REPRODUCTION IN WHOLE OR IN PART IS STRICTLY FORBIDDEN.

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
BUDETTI LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE MOTOR GENERATOR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DECIMALS	TOLERANCES		FRACTIONS	
.X ± .05			± 1/64	
.XX ± .01			ANGLES	
.XXX ± .005			± 0° 30'	
DRAWN	FAENZA	DATE	10.6.65	FINAL APPROV.
CHECKED	Hule	DATE	10/21/65	
ELECT. DES.		DATE		
MECH. DES.		DATE	10/22/65	
SHEET			MO126	
REV. LTR.			B	

STANDARD DRAWING

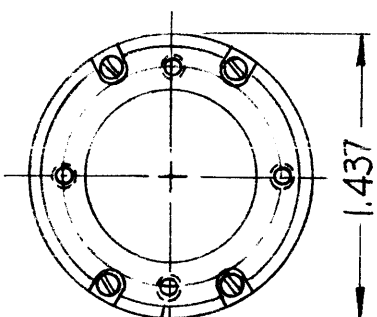
SCHEMATIC DIAGRAM



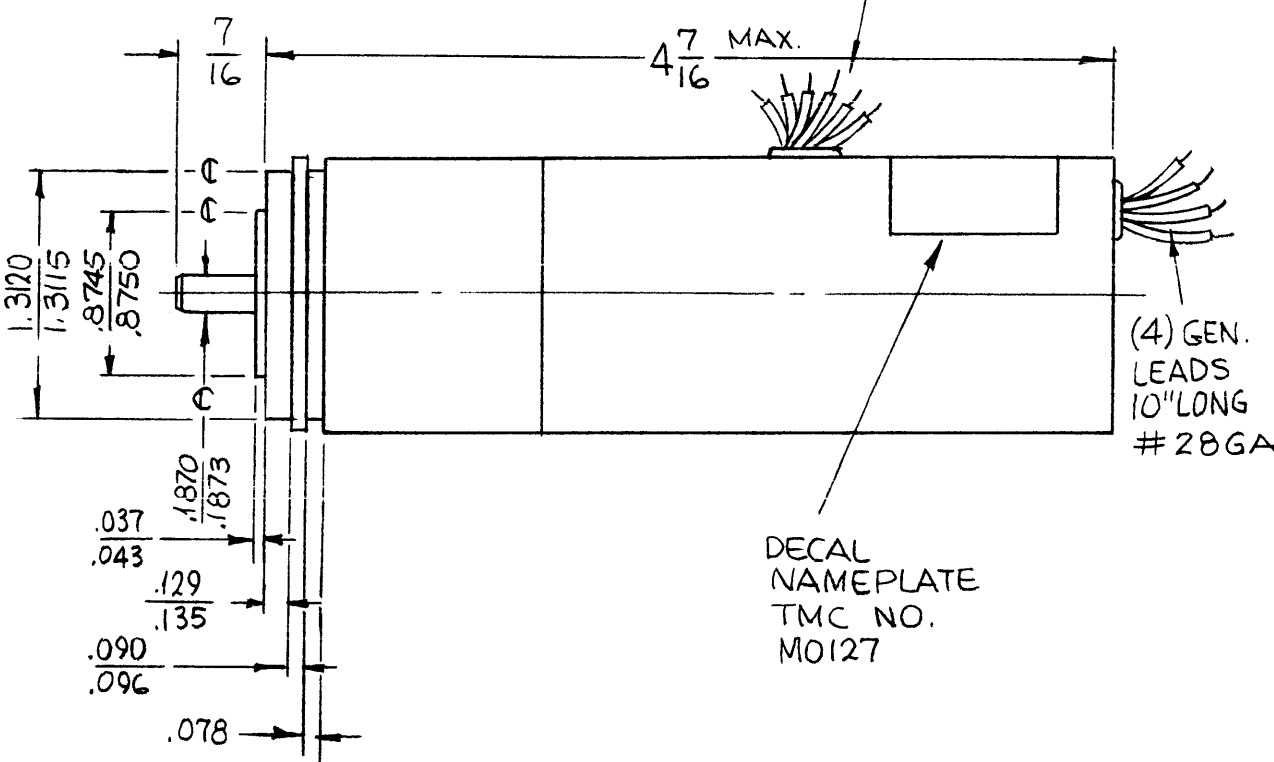
(6) MOTOR LEADS 12" LONG. #28GA

MO127

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	10/20/65	Ø			
A	ADDED #28GA TO LEADS	6.3.68	18946	#2		FBJ
B	FINISH STAINLESS ST. WAS BLACK OXIDE S 401 - 353 (GST 15F-4) ADD.	3/10/70	19780	#14	KLP	RTN



NO. 4-40 NC-2A 3/16 DEEP (4) HOLES EQUALLY SPACED ON A 1.100 ± .003 DIA.



SPECIFICATIONS

FREQUENCY, CPS - 50/60
 STALL TORQUE, OZ.IN - 1.2 (MIN.)
 NO LOAD SPEED, RPM - 3000
 TORQUE AT MAX. POWER OUTPUT, OZ IN - 0.72
 SPEED AT MAX. POWER OUTPUT RPM. - 1600

TYPICAL ELECTRICAL * CHARACTERISTICS	MOTOR		GENERATOR
	FIXED PHASE	CONTROL PHASE	FIXED PHASE
VOLTAGE, VOLTS	115	40	26
CURRENT, AMPS	.063	.182	0.121
POWER INPUT, WATTS	6.0	6.4	2.86

MEASURED AT STALL AT - A WINDING TEMP. 25°C

ADDITIONAL GENERATOR INFO.

* OUTPUT GRADIENT, VOLTS 1000 RPM. - 1.0 MIN.
 ** NULL VOLTAGE, VOLTS (MAX. R.M.S) - .015

NOTES:

- * FREQUENCY - 60 ~
- ** OVER OPERATING TEMP. RANGE OF 0°C TO +55°C
- DIA.'S MARKED "C" MUST BE CONCENTRIC WITHIN .001 T.I.R.
- BACKLASH (AT OUTPUT SHAFT) MEASURED WITH A 5" OUNCE REVERSING LOAD 45' MAX.
- MAX. CONT. LOAD 50 OZ. IN
- MAX. INTERMITTENT LOAD 100 OZ. IN.

NOTES

1	RFTA-1	
Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE 1:1	CODE C	S401-116 (BT1407MAG-1) S401-353 (GST15F-4)

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REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
F. BUDETTI LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH MOTOR - STAINLESS STEEL GEAR HEAD - BLACK ANODIZE			TITLE MOTOR	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		DRAWN	DATE	FINAL APPROVAL
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005		CHECKED	DATE	DATE
FRACTIONS ± 1/64 ANGLES ± 0° 30'		ELECT. DES.	DATE	
TOLERANCES		MECH. DES.	DATE	
			DATE	
			SHEET	REV. LTR.

STANDARD DRAWING

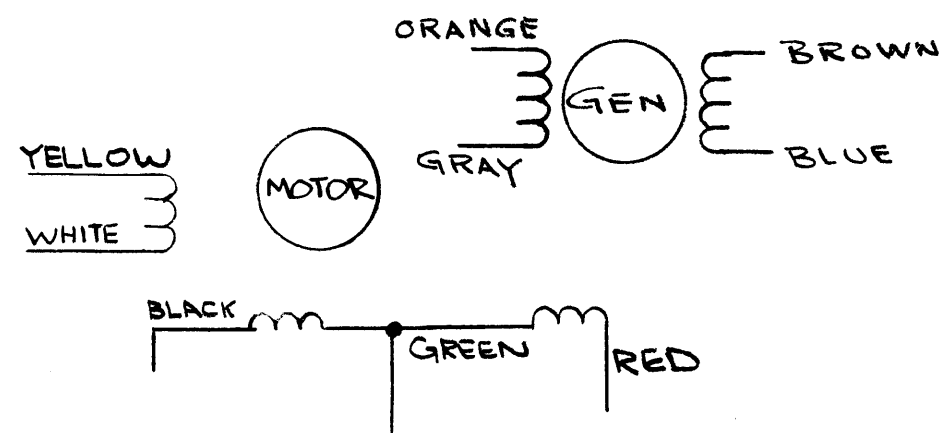
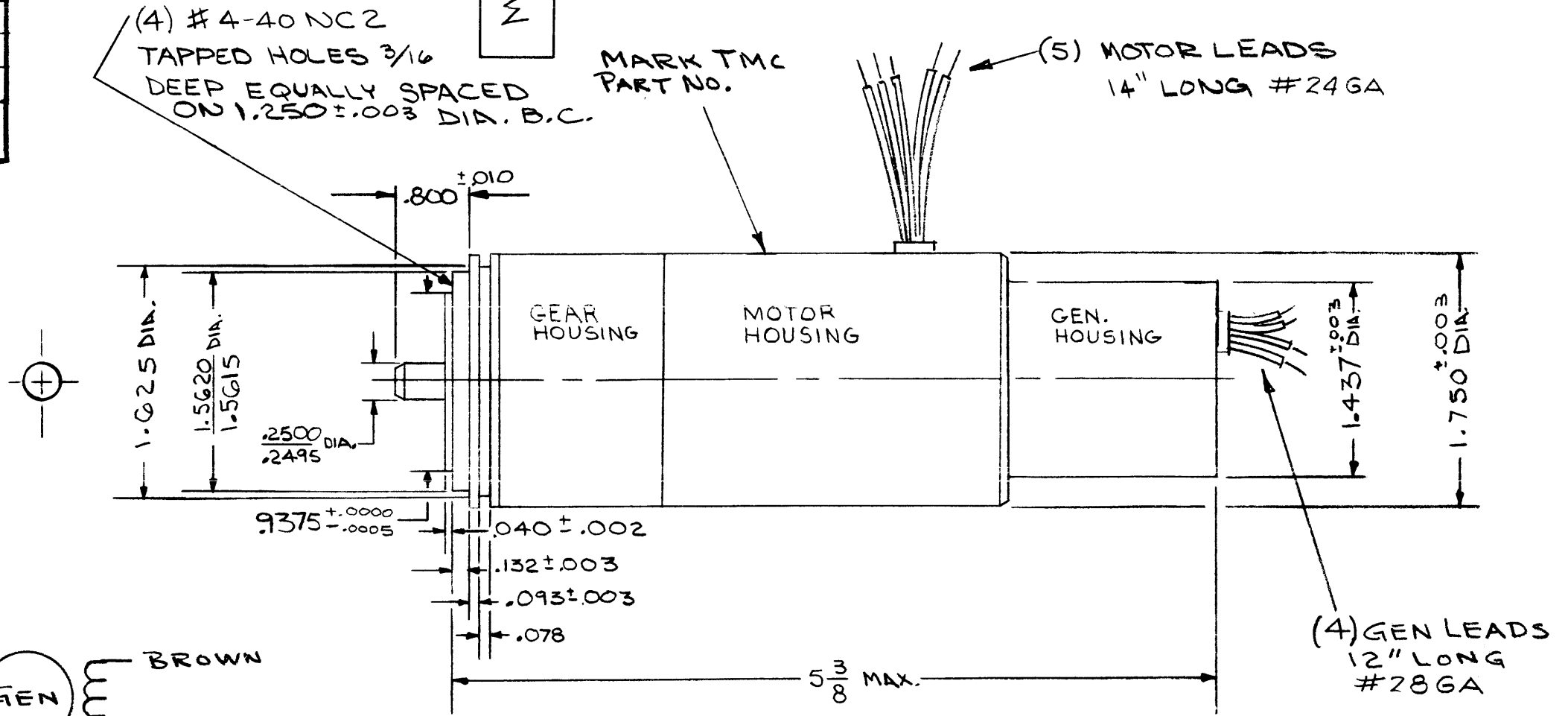
MOTOR CONTROL	
FREQUENCY, C.P.S.	50/60
STALL TORQUE, OZ. IN.	7.0
NO LOAD SPEED, R.P.M.	3200
MAX. POWER OUTPUT, WATTS	4.2

**TYPICAL ELECTRICAL CHARACTERISTICS	MOTOR		GENERATOR
	FIXED PHASE	CONTROL* PHASE	FIXED PHASE
VOLTAGE, VOLTS	220±10%	36 CT	26
CURRENT, AMPS	.099	.600	0.121
POWER INPUT, WATTS	13.3	14.0	2.86

**FREQUENCY 60 CPS
MEASURED AT STALL AT A WINDING TEMP. OF 25°C

ADDITIONAL GENERATOR INFORMATION		
OUTPUT GRADIENT, VOLTS 1000 R.P.M.	1.0	Min
NULL VOLTAGE, VOLTS (MAX. R.M.S.)	.015	
RATED TORQUE: 50 OZ. IN. @ 100 R.P.M. AT +55 C MAX. 150 OZ. IN TORQUE		
AMBIENT TEMP. RANGE: 0° TO +71°C		

REVISIONS					
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD APPD
Ø	ORIGINAL RELEASE FOR PRD.	10/23/65	Ø		
A	DELE. W/LATEST REV. ON NAMEPLATE ² ADDED GEAR HOUSING, MOTOR HOUSING, GEN. HOUSING	8/8/66	16719	RME	JCB MM
B	ADDED #24 GA & #28 GA TO LEADS	6/3/68	18946	HZ	FB



REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
BUDETT				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH GEAR HEAD ALUM. BLACK ANIDIZED			TITLE MOTOR GENERATOR	
GEN. MOTOR ST. ST.			DRAWN: EANZA DATE: 10-6-65	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES			CHECKED: HZ DATE: 10-21-65	
			ELECT. DES: JCB DATE: 10/22/65	
DECIMALS .X ± .05 .XX ± .01 .XXX ± .005			FINAL APPROVAL: [Signature] DATE: 10/22/65	
FRACTIONS ± 1/64 ANGLES ± 0° 30'			SHEET: MO128	
TOLERANCES			REV. LTR. B	
ML			DATE: 10-22	

2	TSTE-10K	ASS'Y. NO.
Q'TY./UNIT	MODEL USED ON	
SCALE	CODE	S401-116
DO NOT SCALE		BT1710 MAG

NOTES

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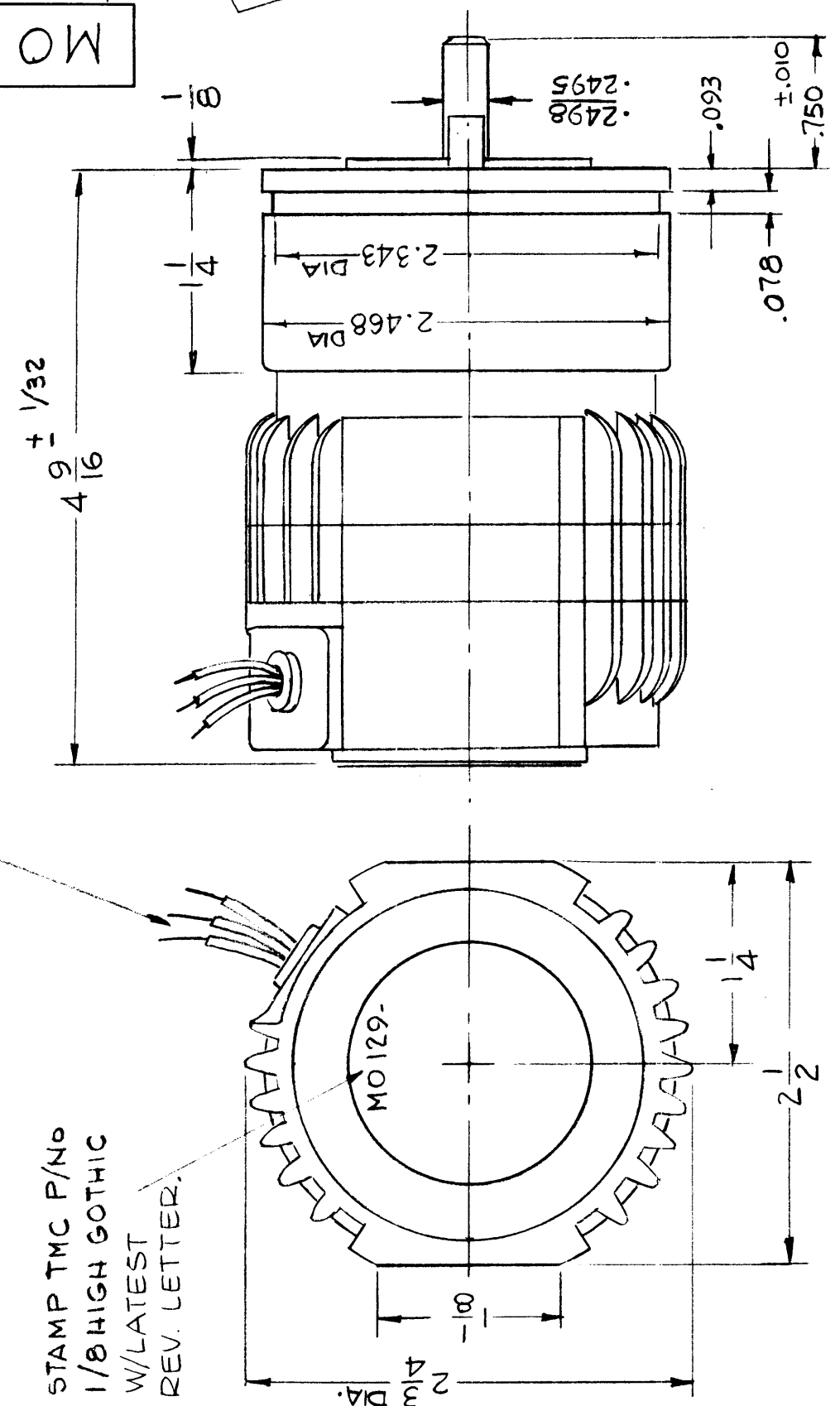
STANDARD DRAWING

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	6-17-65	M	JC		
A	U/O BLK. 2 PER WASI. DIM. 0.78 WASI. 78.	9/1/65	15288	J.M.V.		
B	REMOVED FLATS FROM OUTPUT SHAFT	7-25-66	15920	R.M.E.		

MO 129

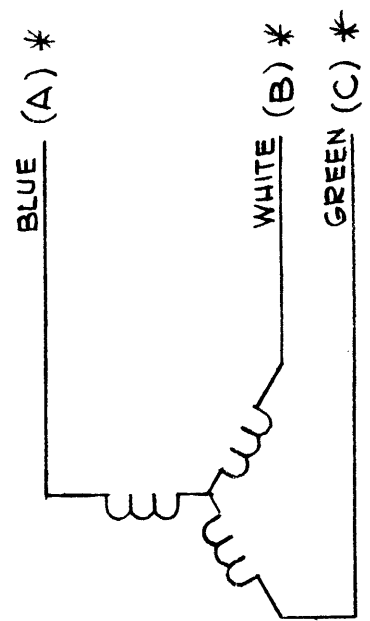
3 LEADS 7" LONG
BLUE, WHITE, GREEN

STAMP TMC P/No
1/8 HIGH GOTHIC
W/LATEST
REV. LETTER.



- SPECIFICATIONS -
 AMBIENT TEMP. RANGE - 0 °C TO +71 °C
 LIFE - 5000 HOURS
 CONT. LOAD - 65 OZ. IN
 INT. LOAD - 250 OZ. IN
 INPUT POWER - 25W @ 220V ± 10%
 50/60 CPS - 3PH, 0.14 A
 H. P. - 1/80 @ 180 R.P.M.
 TEMP. RISE - 40 °C @ 220V, RATED LOAD
 GEAR RATIO - 20:3
 CW ROTATION FACING SHAFT END.
 * PHASE SEQUENCE A-B-C

MTG. HOLES # 8-32 NC-2B TAPPED
EQUALLY SPACED ON 1.968 ± .003



- SCHEMATIC -

NOTES

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
	F. BUDETTI		LIST OF MATERIAL	
	MATERIAL		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
	FINISH		BLACK ANODIZE	
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	
			DECIMALS .X ± .05 .XX ± .01 .XXX ± .005	
			FRACTIONS ± 1/64 ANGLES ± 0° 30'	
			TOLERANCES ± 0° 30'	

QTY./UNIT	SCALE	MODEL USED ON	ASSY. NO.
2	DO NOT SCALE	TSTE-10K	5401-116-BT22156

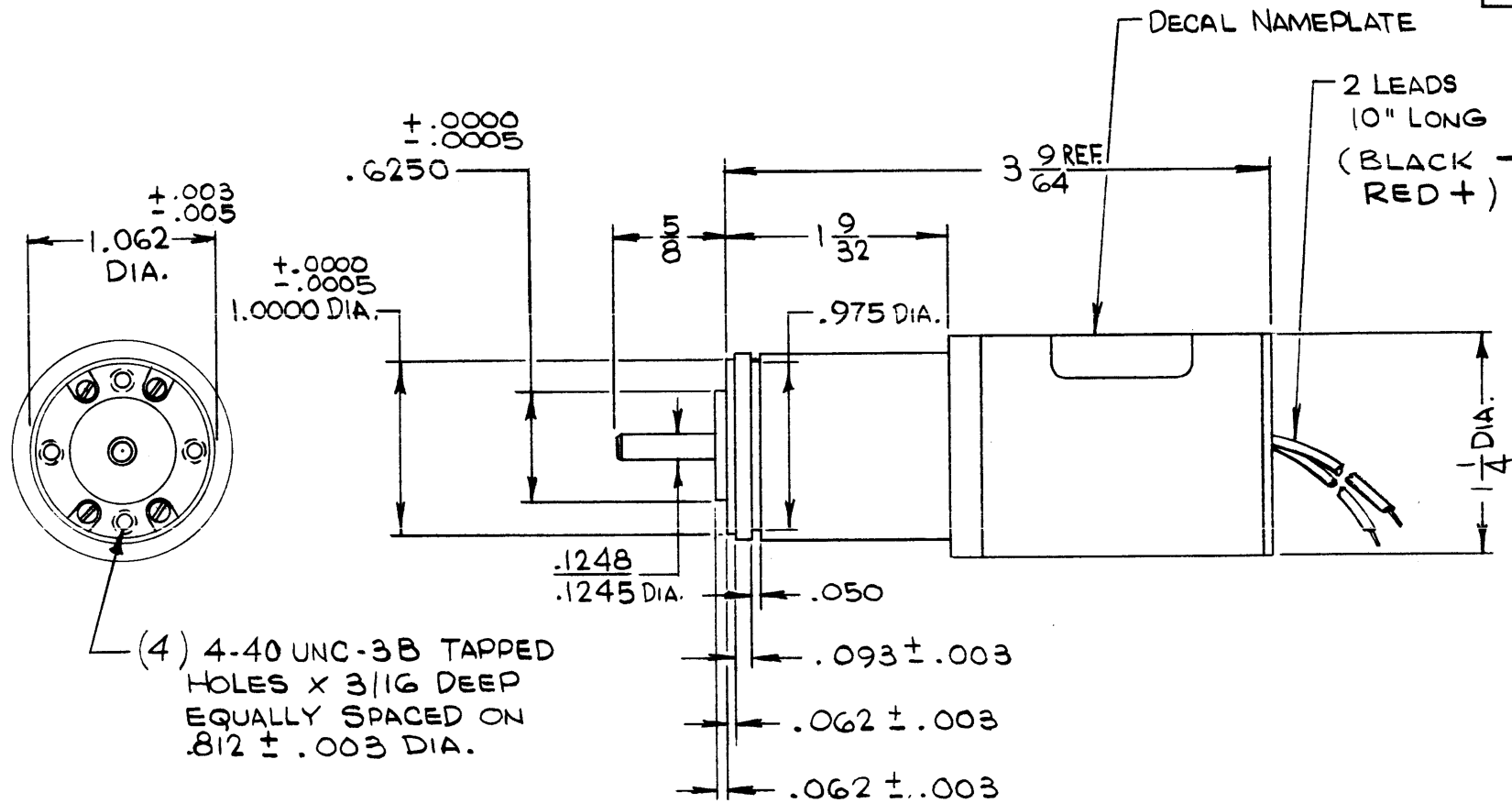
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STANDARD DRAWING

MO130 B

REVISIONS

SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
	ORIGINAL RELEASE FOR PRODUCTION	9/14/65	2	H.V.S.		
A	ADDED REF TO 3-9/64 DIM' CHART ADDED "SEE CHART" IN SPECS WAS 2 RPM	11/10/66	17197	RME	X/S	R
B	BLACK ANODIZE ALUM. WAS STAINLESS STEEL	6.3.68	18946	Hg	/S	FB



(4) 4-40 UNC-3B TAPPED HOLES X 3/16 DEEP EQUALLY SPACED ON .812 ± .003 DIA.

SPECIFICATIONS

OPERATING VOLTAGE : 24 VDC

OPERATING CURRENT : 0.10 A

TORQUE : 7 OZ. IN.

SPEED : SEE CHART

FINISH : MOTOR : BLACK ANODIZE

GEAR HEAD : BLACK ANODIZED ALUMINUM

CCW ROTATION FACING SHAFT END

TMC P/N	SPEED
MO130	2 RPM
MO130-2	5 RPM

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
--------	------	-------------	-------------	--------

BUDETTI

LIST OF MATERIAL

MATERIAL	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
FINISH	TITLE MOTOR, D.C. GEAR			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	DRAWN H. AUSTIN	DATE 9-8-65	FINAL APPROVAL <i>[Signature]</i>	DATE 9/10/65
---	--------------------	----------------	--------------------------------------	-----------------

DECIMALS .X ± .05 .XX ± .01 .XXX ±	FRACTIONS ± 1/64 ANGLES ± 0° 30'	TOLERANCES	ELECT. DES. <i>[Signature]</i>	DATE 9/9/65	MECH. DES. <i>[Signature]</i>	DATE 9/9/65	MO130	B
						SHEET	REV. LTR.	

NOTES

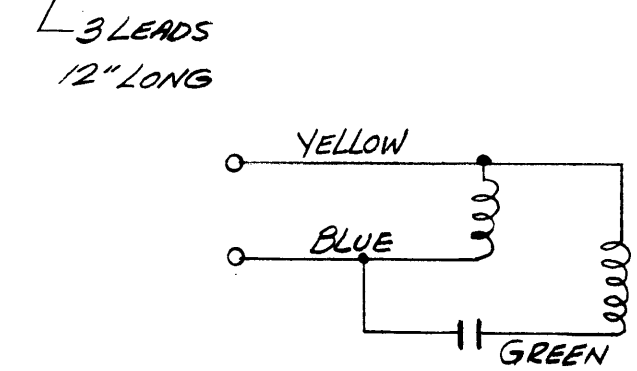
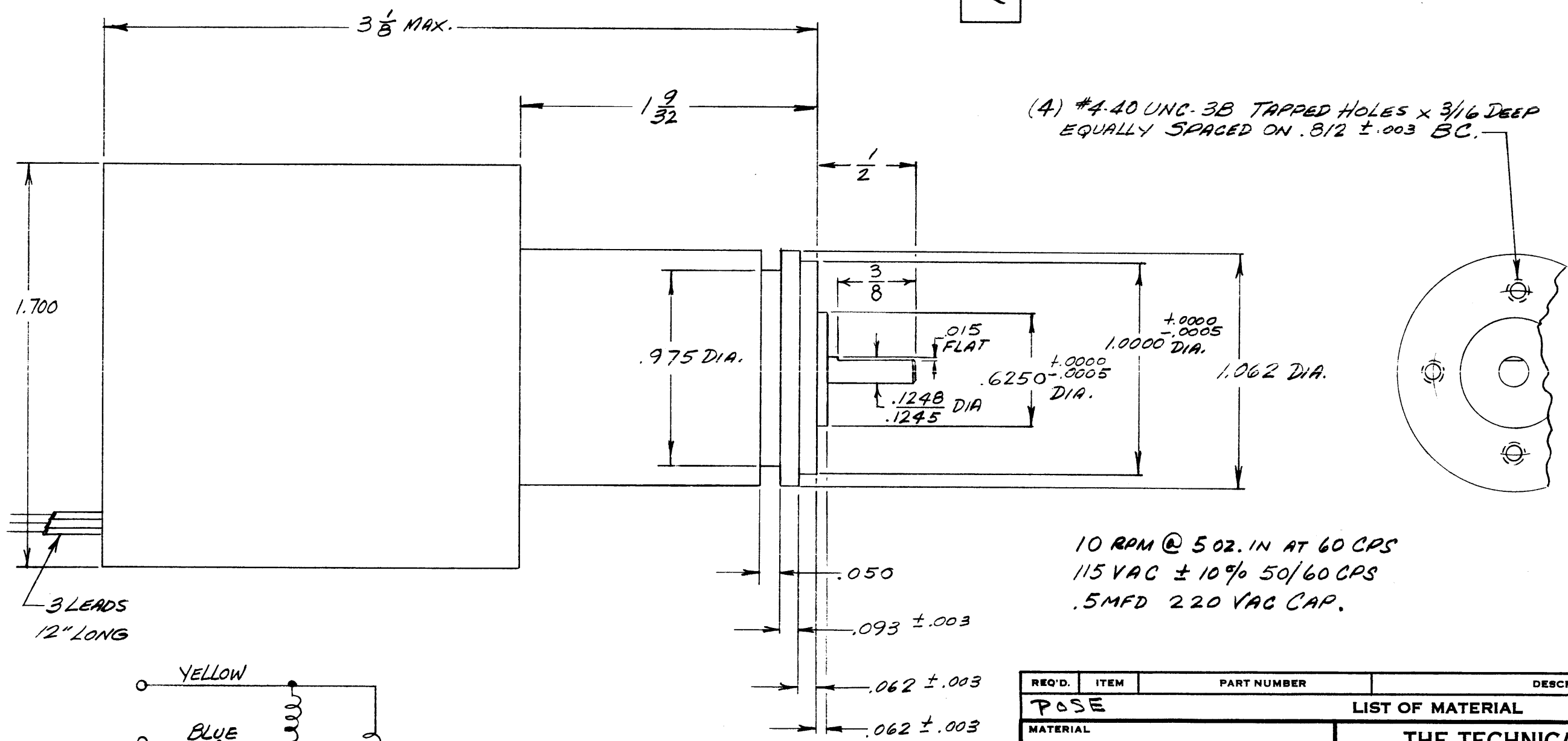
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1	TSTE-10K	ASS'Y. NO.
Q'TY./UNIT	MODEL USED ON	
SCALE	CODE C	S401-11G(BD1206G-8)

STANDARD DRAWING

MO131

REVISIONS						
SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
Ø	ORIGINAL RELEASE FOR PRODUCTION	5/19/65		CW		
A	3/8 X .015 FLAT ADDED	12/29/65	15469	M.V.J.		J.P.A. J.C.



CW ROTATION FACING GEAR OUTPUT SHAFT. TO REVERSE INTERCHANGE BLUE & GREEN LEADS.

NOTES

Q'TY./UNIT		MODEL USED ON		ASS'Y. NO.	
SCALE #		CODE C		S401-116 (BC1507G-7-1)	
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REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
POSE LIST OF MATERIAL				
MATERIAL			THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
FINISH			TITLE MOTOR & GEAR HEAD	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES				
DRAWN ALA		DATE 5-5-65	FINAL APPROVAL M.V.J.	
CHECKED H.O.		DATE 5/19/65	DATE 5/17/65	
ELECT. DES. M.V.J.		DATE 5/19/65	REV. LTR. A	
MECH. DES. M.V.J.		DATE 5/19/65	SHEET	

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

RELEASED

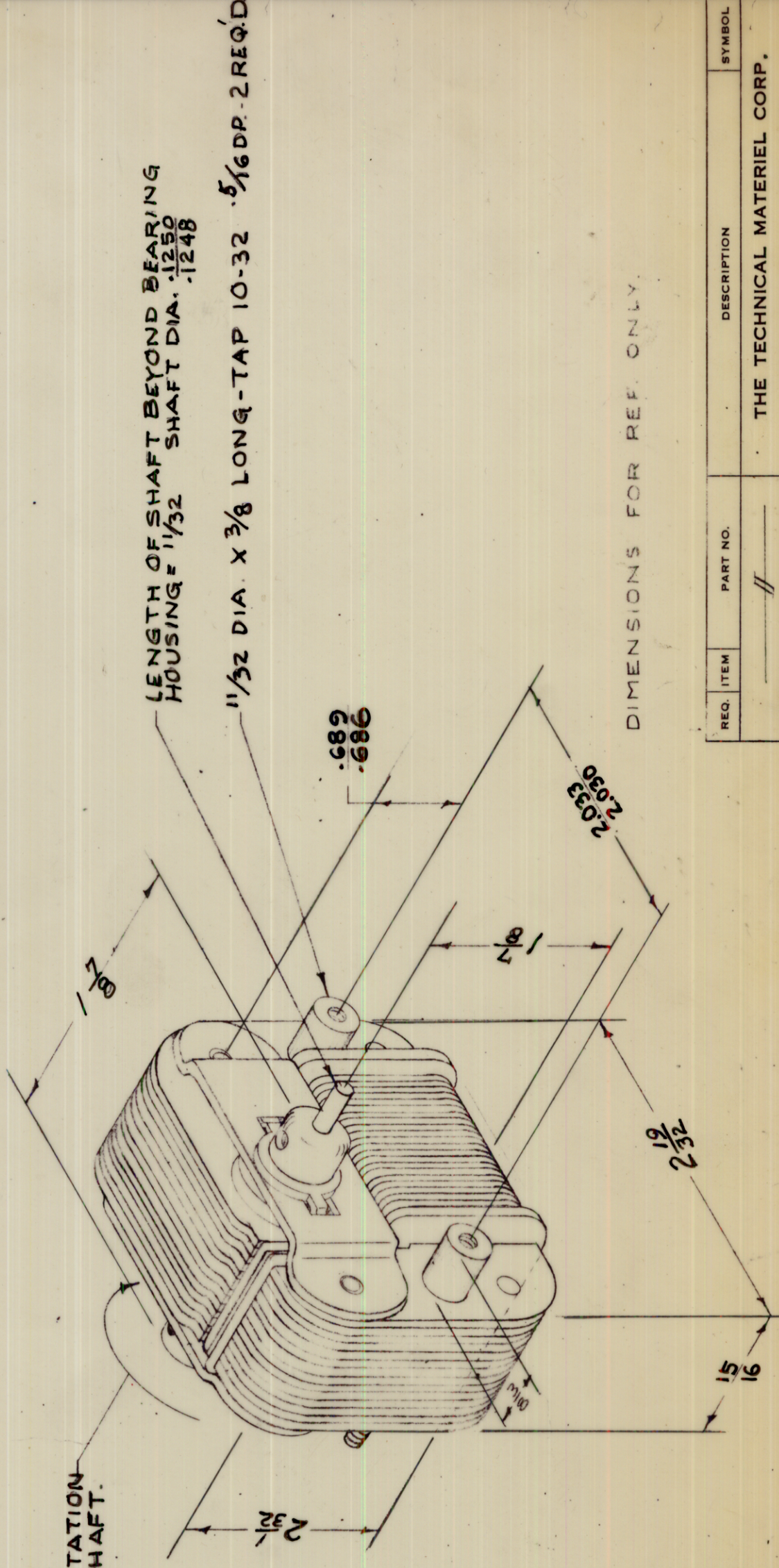
MO135

CHARACTERISTICS

VOLTAGE = 115 V A.C.	60 CYCLES	50 CYCLES
FULL LOAD SPEED	2400 R.P.M.	2000 R.P.M. .19 AMP
NO LOAD SPEED	3400 R.P.M.	2800 R.P.M. .17 AMP
DUTY CYCLE	CONTINUOUS	CONTINUOUS
FULL LOAD H.P.	.002	.002
FULL LOAD TORQUE	.055 LB. IN.	.055 LB. IN.

MAXIMUM AMBIENT TEMP UNDER STALL CONDITIONS = 50°C (122°F)
 INSULATION CLASS "F"
 LUBRICATION = HIGH TEMPERATURE TYPE

CLOCK WISE ROTATION VIEWED FROM SHAFT.



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Property of:
 THE TECHNICAL MATERIEL CORPORATION
 MAMARONECK, NEW YORK

ISSUE NO.	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
		5/13/66				JH
ALL OTHERS	TOLERANCES					
	DEC. DIM. ± .005					
	FRAC. DIM. ± 1/64					
	ANGULAR DIM. ±					

MODEL	PROJECT NO.	ASSY. NO.	DATE
CK-2/60			5-12-66
FOR PURCHASING ONLY			
S401-64 (KYAB-5634-4)			

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP.	
STOCK SIZE		MAMARONECK.	
MATERIAL		MOTOR	
TYPE & TEMPER			
HEAT TREAT. SPEC.			
FINISH & SPEC. NO.			
			MO135

DRAWN: JH 5/13/66
 CHECKED: JH 5/13/66
 ELEC. DES. APP. JH
 MECH. DES. APP. JH
 FINAL APPROVAL

5

4

3

2

1

REVISIONS							
E.M.N. NO.	DRAFT	CHKD	ZONE	LTR	DESCRIPTION	DATE	APPROVED
20578	GE			B	REDRAWN W/MODIFIED NOTES	4.17.72	

SPECIFICATIONS

*TYPE : REVERSIBLE SYNCHRONOUS MOTOR
WITH SLIP CLUTCH.*

*SHAFT STYLE : 75D UNHARDENED
115V
60 HZ
8 WATTS*

TMC P/N EXAMPLE

MO 136-10

BASIC P/N *RPM*

PURCHASING NOTE: VENDOR MUST INCLUDE THE FOLLOWING INFORMATION WHEN SHIPPING THIS ITEM TO TMC.

- 1. AN OUTLINE DRAWING OR ILLUSTRATION FROM CATALOG SHOWING ALL PERTINENT DIMENSIONS & TOLERANCES.*
- 2. ELECTRICAL AND/OR MECHANICAL SPECIFICATIONS AS SHOWN IN THEIR CATALOGS.*

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.	
<i>F.B.</i> LIST OF MATERIAL					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		FINAL APPROVAL	DATE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
DECIMALS .X ± .05 FRACTIONS 1/64		MECH. DES.	DATE		
.XX ± .01 TOLS. ANGLES		ELECT. DES.	DATE		
.XXX ± .005 0° .30'		CHECKED	DATE		
MATERIAL		DRAWN	DATE	<i>MOTOR, REVERSIBLE SYNCHRONOUS</i>	
FINISH		<i>GE</i>	<i>4/17/72</i>		
NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.		SIZE	CODE IDENT. NO.	DWG NO.	ISSUE
		<i>B</i>	<i>82679</i>	<i>MO 136</i>	<i>B</i>
		SCALE	SHEET OF		

QTY / UNIT	MODEL USED ON	ASS'Y NO.
<i>1</i>	<i>LPA-2</i>	
APPLICATION		
<i>5401-462</i>	CODE	<i>P/N 831</i>

D

D

C

C

B

B

A

A

5

4

3

2

1

FREQUENCY, CPS. 50/60
 STALL TORQUE, OZ. IN. 6.0 NOM.
 NO LOAD SPEED, R.P.M. 3200
 MAX. POWER OUTPUT, WATTS _____
 TORQUE AT RATED
 OUTPUT, OZ. IN. 1.4 MIN.
 SPEED AT RATED
 OUTPUT, R.P.M. 2700
 ROTOR INERTIA, GM-CM² 7.7
 THEORETICAL ACCELERATION
 AT STALL, RAD/SEC² _____
 TIME CONSTANT, SECONDS _____
 WEIGHT, OZ. _____

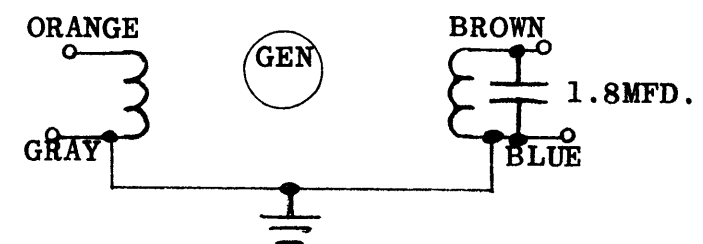
REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	X	EXP. RELEASE	8.19.68		HG.	
	Ø	ORIG. RELEASE FOR PROD	10-22-68		R.G.	
	A	ADD. B-5401-353	6/4/70	W	KL	CW

** TYPICAL ELECTRICAL CHARACTERISTICS	MOTOR		GENERATOR
	FIXED PHASE	CONTROL PHASE	FIXED PHASE
VOLTAGE, VOLTS	115	36 CT	26
CURRENT, AMPS.	.173	.550	0.121
POWER INPUT, WATTS	14.0	14.0	2.86
POWER FACTOR	0.70	0.70	0.91
R OHMS	465	46.5	196
X OHMS	474	47.4	89
Z OHMS	665	66.5	215
EFFECTIVE R OHMS	950	95.0	238
UNITY P.F. CAPACITOR, M.F.D.	2.5	25	4.6

**FREQUENCY 60 CPS
 MEASURED AT STALL AT A WINDING TEMP OF 25°C.

ADDITIONAL GENERATOR INFORMATION
 OUTPUT GRADIENT, VOLTS 1000R.P.M. 1.0
 NULL VOLTAGE, VOLTS (MAX. R.M.S.) .015
 NULL VOLTAGE, FUNDAMENTAL .006
 *PHASE ANGLE WITH RESPECT TO
 INPUT AT 3600 R.P.M. 0°
 OUTPUT IMPEDANCE, OHMS 1500
 OUTPUT LOAD
 AMBIENT TEMP. RANGE 0 C TO +71°C
 *CAP 1.8 MFD ACROSS OUTPUT @60 ~

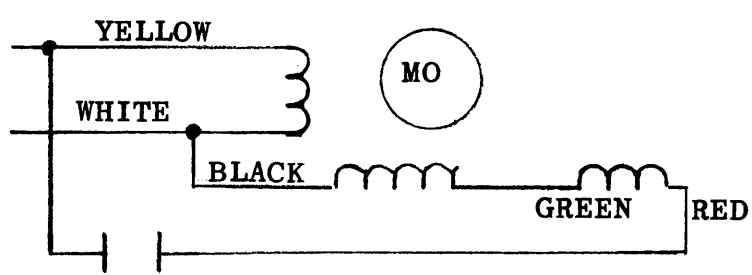
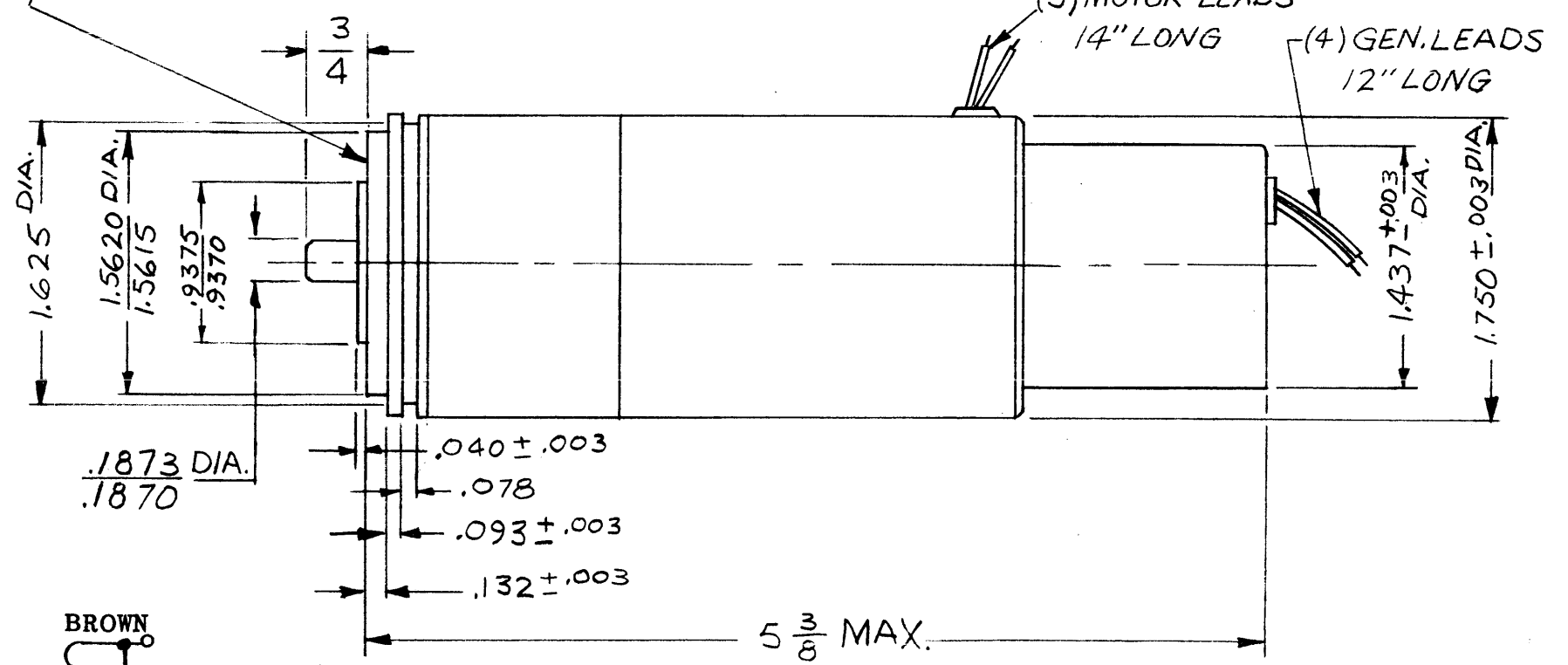
GEAR RATIO 2.5:1



WITH CONN. DIAGRAM AS SHOWN Eo APPROX. 180° OUT OF PHASE WITH THE INPUT VOLTAGE WHEN SHAFT IS DRIVEN CW FACING SHAFT END.

1	HFRR-4	
QTY / UNIT	MODEL USED ON	ASS'Y NO.
APPLICATION		
CODE		
NOTICE TO PERSONS RECEIVING THIS DRAWING		
THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.		

(A) #4-40 NC-28 TAPPED HOLES
 .187 DEEP, EQUALLY SPACED ON
 1.250 ± .002 DIA. B.C.



WITH ROTATIONAL DIAGRAM AS SHOWN THE SHAFT ROTATION IS CW SHAFT BNC

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
LIST OF MATERIAL				
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK				
MOTOR, SERVO				
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	MO 137	A	
SCALE	SHEET		OF	

5

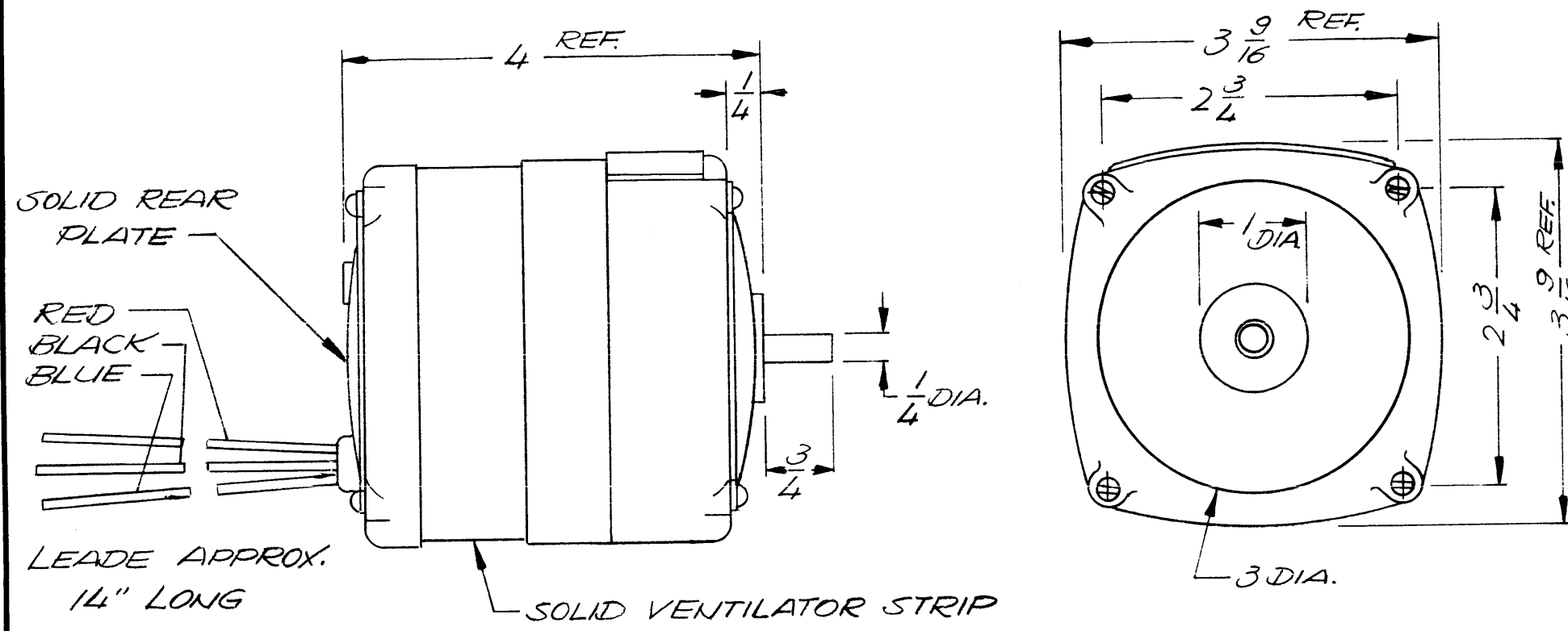
4

3

2

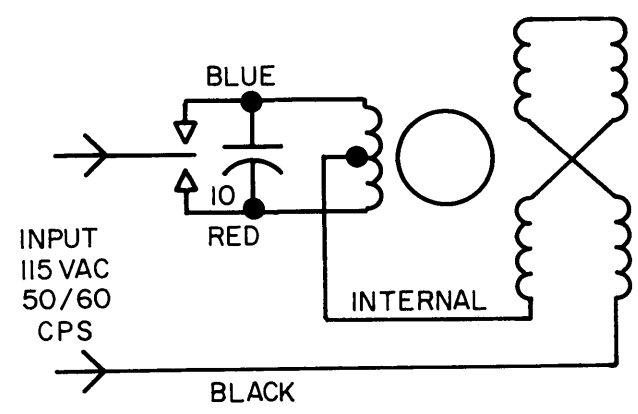
1

REVISIONS						
ZONE	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD APPD
	0	ORIG RELEASE FOR PROD	3/6/72		W	



ELECTRICAL DATA
 SHADED POLE 2 POLE
 DIRECTION — REVERSIBLE
 GEAR RATIO — 48:1
 FULL LOAD RPM — 31
 NO LOAD RPM — 54
 STALL TORQUE — 11.7 LB. IN.
 FULL LOAD TORQUE — 7.1 LB. IN.
 VOLTAGE — 115 VAC 50/60 CPS
 WATTAGE — 38 W.

MECHANICAL DATA
 BALL BEARING BASE
 CORROSION & FUNGUS RESISTANT
 CASE — WHITE METAL DIE CAST
 SHAFT — STAINLESS STEEL — 410 SEE TMC PM583
 GEAR — TMC NO. GR-137



SCHEMATIC

QTY / UNIT	MODEL USED ON	ASS'Y NO.
1	MFTR-10KES	BMA 484
1	MAT-5	BMA 474

APPLICATION
 CODE 5401-64 (PEKE 10236)
 MATERIAL AS NOTED
 FINISH AS NOTED
 NOTICE TO PERSONS RECEIVING THIS DRAWING
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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES
 DECIMALS .X ± .05 .XX ± .01 .XXX ± .005
 FRACTIONS 1/64
 TOLS. ANGLES 0° -30'

REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.
F.B. LIST OF MATERIAL				
FINAL APPROVAL			DATE 3/14/72	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK
MECH. DES. AC			DATE	
ELECT. DES.			DATE	
CHECKED			DATE	
DRAWN G.E.			DATE 1/19/72	MOTOR, REVERSIBLE
SIZE	CODE IDENT. NO.	DWG NO.	ISSUE	
B	82679	MO 152	1	
SCALE NTS			SHEET OF	

5

4

3

2

1