

BALDOR® • RELIANCE

Product Information Packet

M1708T

5/2.5HP, 1725/850RPM, 3PH, 60HZ, 213T, 3744M

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3744M	Elec. Spec:	37WGY903	CD Diagram:	CD0011
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37A001	Layout:	37LYA001
Frame:	215T	Mounting:	F1	Poles:	04/08	Created Date:	08-03-2006
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	07-23-2015
Leads:	6#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	M1708T									
SPEC.	37A001Y903G1									
HP	5/2.5									
VOLTS	460									
AMP	6.5/5.2									
RPM	1725/850									
FRAME	215T				HZ	60			PH	3
SER.F.	1.15		CODE	K	DES	B		CLASS	B	
NEMA-NOM-EFF			PF							
RATING	40C AMB-CONT									
CC									USABLE AT 208V	
DE	6307				ODE	6206				
ENCL	TEFC		SN							

Parts List		
Part Number	Description	Quantity
SA147312	SA 37A001Y903G1	1.000 EA
RA136363	RA 37A001Y903G1	1.000 EA
HW3200A01	3/8-16X3/4 I-BLT WELDED F/S	1.000 EA
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 EA
37GS1000	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37PE3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
07FH4007	PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 EA
37GS1008SP	37 GS FOR CB LID - LEXIDE	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.028 GA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0032	CONNECTION LABEL	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data

Record # 36634 - Typical performance - not guaranteed values

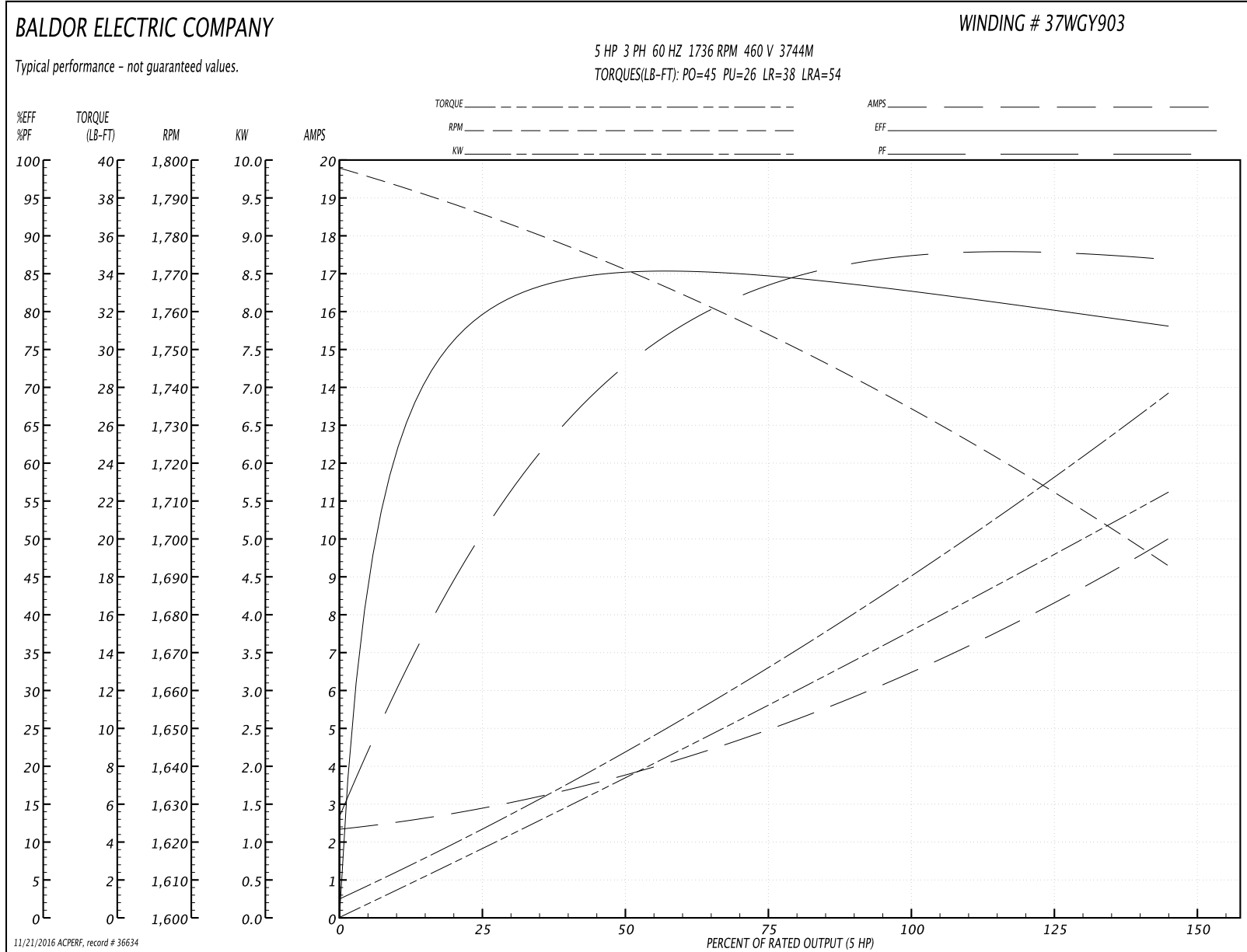
Winding: 37WGY903-R003	Type: 3744M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Speed Connection	
Rated Output (HP)	5/2.5			Full Load Torque	15 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	6.5/5.2			Breakdown Torque	45 LB-FT
R.P.M.	1725/850			Pull-up Torque	26 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	38 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	54 A
Service Factor (S.F.)	1.15			No-load Current	2.4 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	2.9 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	71°C
S.F. Amps				Temp. Rise @ S.F. Load	84°C

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	54	74	83	86	88	87	87
Efficiency	78.6	84.3	84.9	83	80.8	77.8	81.7
Speed	1784	1770	1754	1736	1715	1692	1723
Line amperes	2.8	3.8	5	6.5	8.1	10	7.46

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 36635 - Typical performance - not guaranteed values

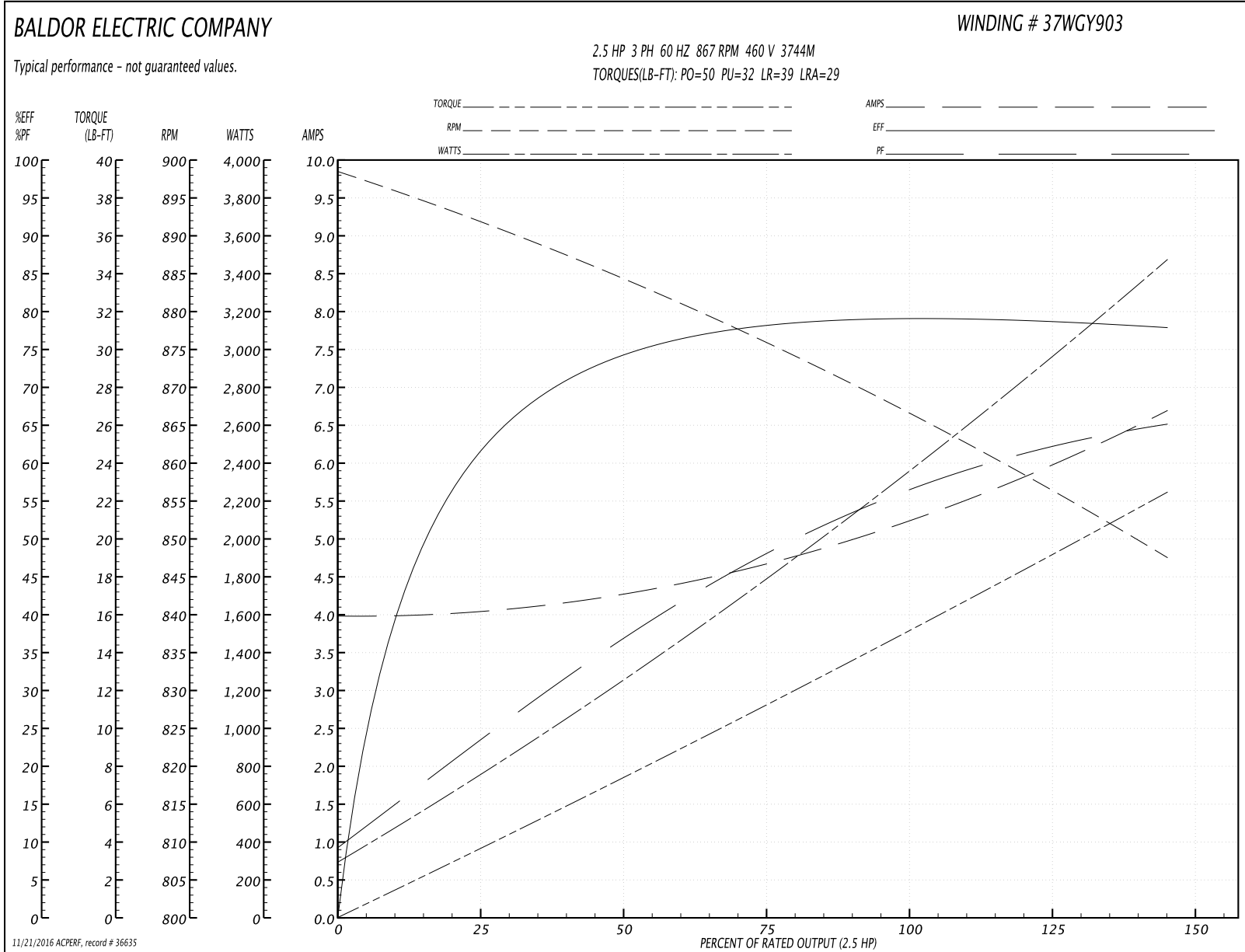
Winding: 37WGY903-R003	Type: 3744M	Enclosure: TEFC
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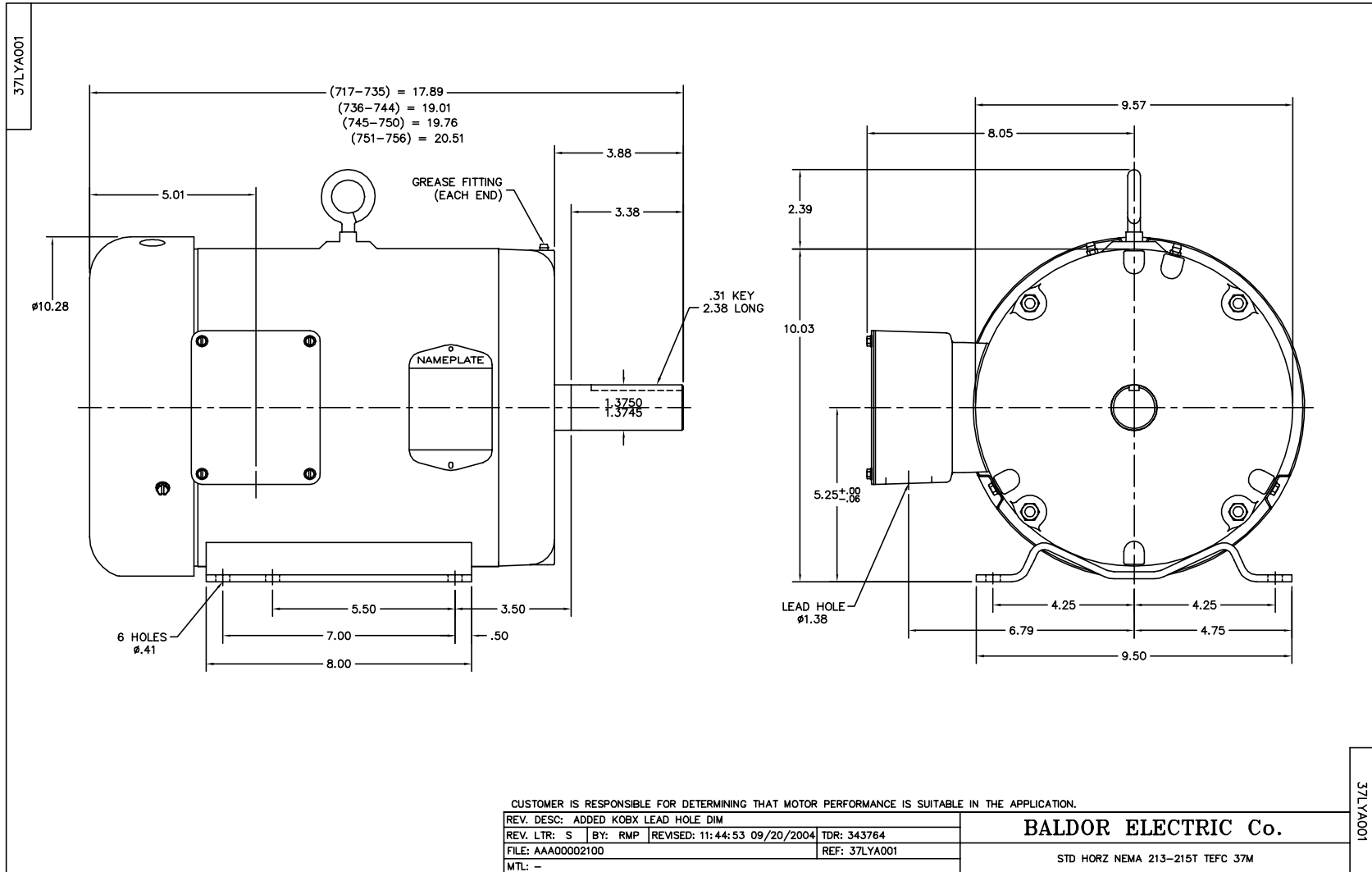
Nameplate Data				460 V, 60 Hz: Low Speed Connection	
Rated Output (HP)	5/2.5			Full Load Torque	15 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	6.5/5.2			Breakdown Torque	50 LB-FT
R.P.M.	1725/850			Pull-up Torque	32 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	39 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	29 A
Service Factor (S.F.)	1.15			No-load Current	4 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	3.87 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	68°C
S.F. Amps				Temp. Rise @ S.F. Load	76°C

Load Characteristics 460 V, 60 Hz, 2.5 HP

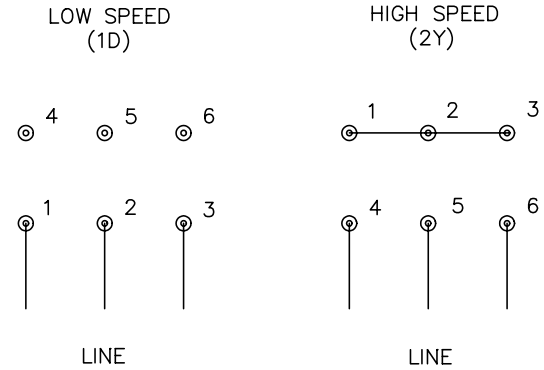
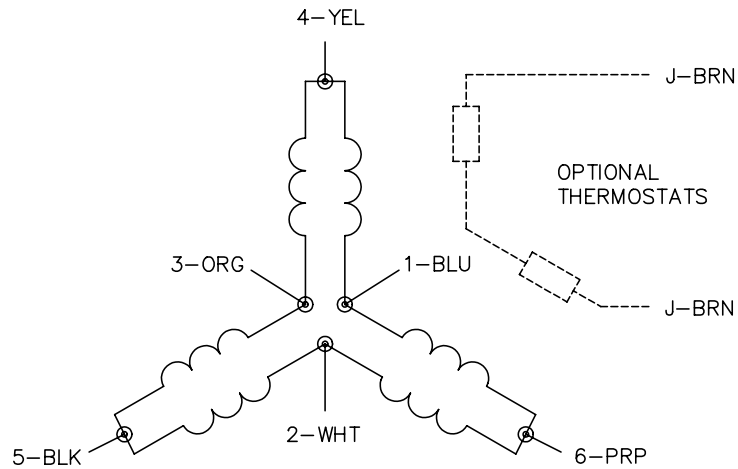
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	37	48	56	62	65	60
Efficiency	61.5	73.9	78.4	79.2	79	77.7	79.1
Speed	891	884	876	867	858	847	862
Line amperes	4	4.3	4.7	5.2	5.9	6.7	5.62

Performance Graph at 460V, 60Hz, 2.5HP Typical performance - Not guaranteed values





CD0011



- NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: F	BY: JLP	REVISED: 01/21/99 5:04	TDR: 0171435
110000		FILE: DWG\142.wg	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING CONSTANT TORQUE

CD0011