

BALDOR® • RELIANCE

Product Information Packet

EM3309T

5HP,1160RPM,3PH,60HZ,215T,3744M,OPSB,F1

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3744M	Elec. Spec:	37WGS521	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	37F614	Layout:	37LYF614
Frame:	215T	Mounting:	F1	Poles:	06	Created Date:	04-11-2008
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	11-06-2015
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1259L

CAT.NO.	EM3309T													
SPEC.	37F614S521G1													
HP	5													
VOLTS	230/460													
AMP	14.8/7.4													
RPM	1160													
FRAME	215T					HZ		60				PH		3
SER.F.	1.15			CODE		K		DES		A		CL		F
NEMA-NOM-EFF	89.5				PF		71							
RATING	40C AMB-CONT													
CC	010A				USABLE AT 208V									15.2
DE	6307				ODE		6206							
ENCL	OPSB			SN										

Parts List		
Part Number	Description	Quantity
SA170012	SA 37F614S521G1	1.000 EA
RA158268	RA 37F614S521G1	1.000 EA
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 EA
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 EA
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37EP3200A01SP	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
37PE3201A01	PU ENDPLATE ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3104A35	THRUBOLT .31-18 X 13.687	4.000 EA
37AD2001A01	BAFFLE PLATE, STAMPED	2.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
37-1404	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 53393 - Typical performance - not guaranteed values

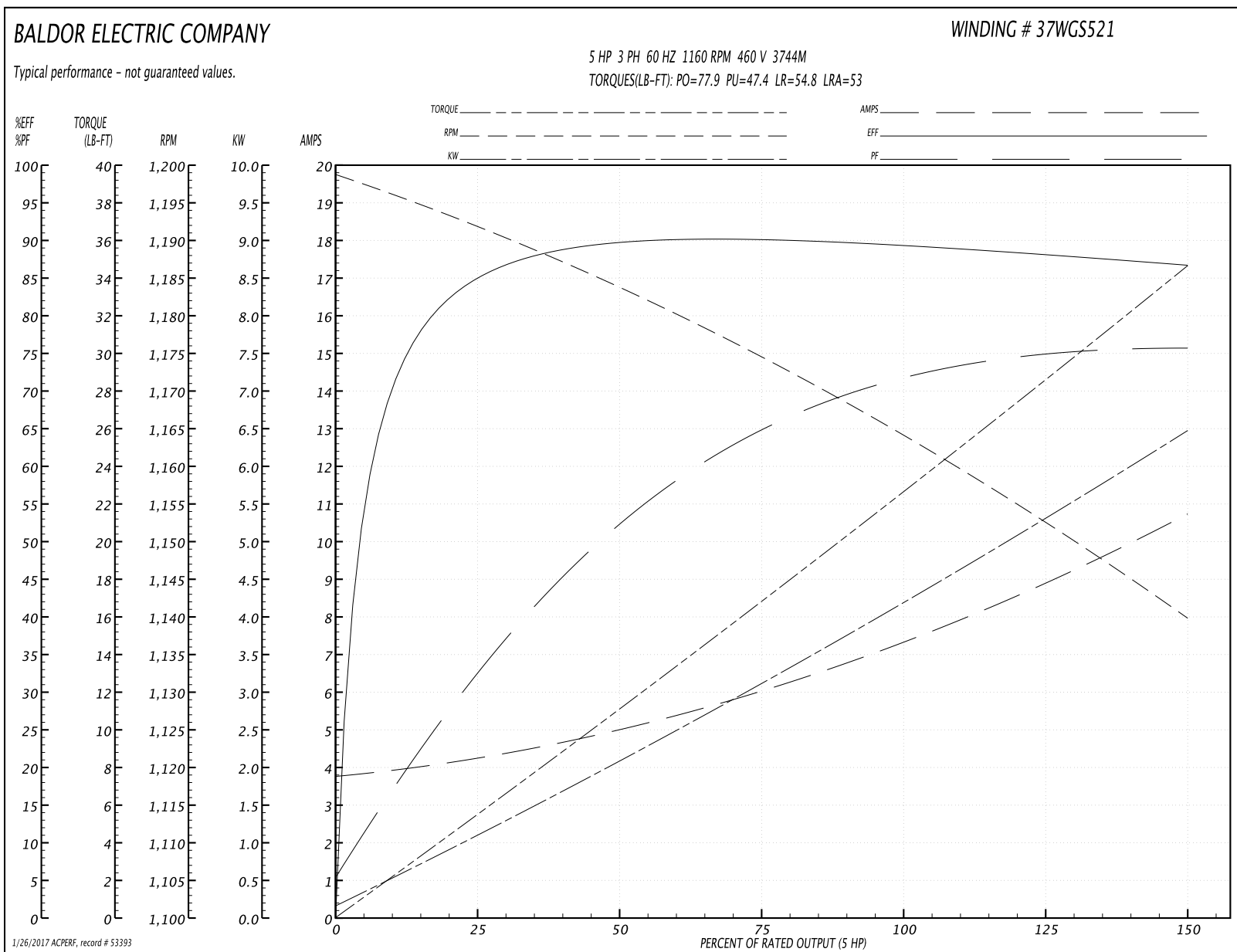
Winding: 37WGS521-R008	Type: 3744M	Enclosure: OPSB
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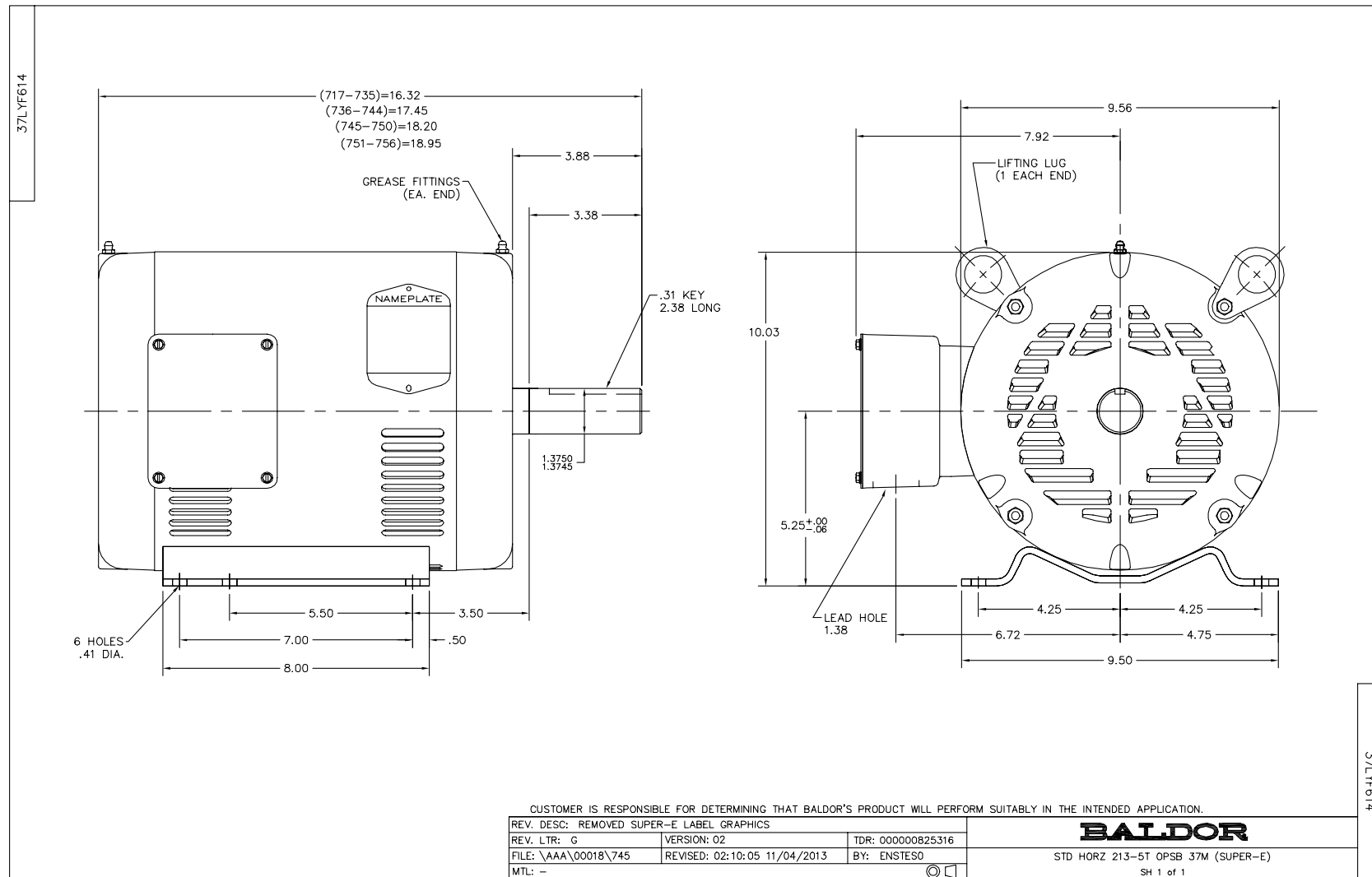
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	22.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	14.8/7.4			Breakdown Torque	77.9 LB-FT
R.P.M.	1160			Pull-up Torque	47.4 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	54.8 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	53 A
Service Factor (S.F.)	1.15			No-load Current	3.84 A
NEMA Nom. Eff.	89.5	Power Factor	71	Line-line Res. @ 25°C	1.7514 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	33°C
S.F. Amps				Temp. Rise @ S.F. Load	41°C
				Locked-rotor Power Factor	23
				Rotor inertia	1.09 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

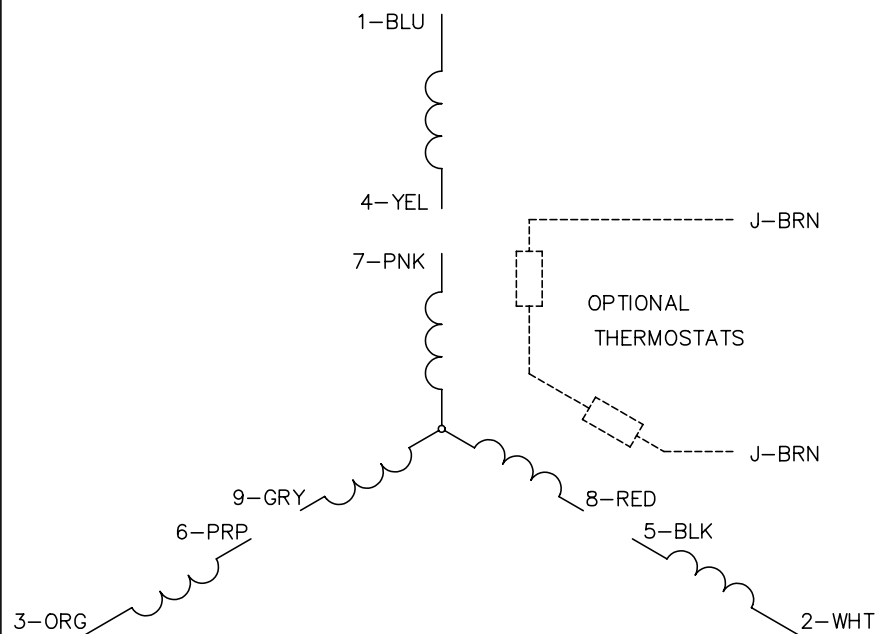
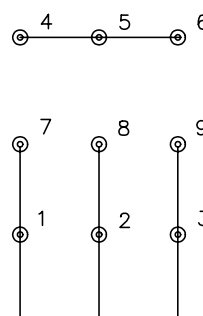
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	53	65	71	74	76	73
Efficiency	84.5	89.4	90.1	89.5	88.3	86.5	88.8
Speed	1191.9	1183.8	1173.7	1164.6	1153.5	1139.2	1158
Line amperes	4.14	4.95	6.08	7.36	8.92	10.7	8.3

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

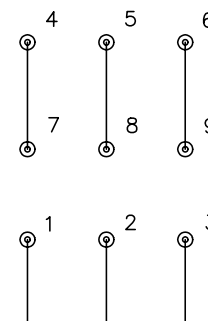




CD0005

LOW VOLTAGE
(2Y)

LINE

HIGH VOLTAGE
(1Y)

LINE

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: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005