

BALDOR® • RELIANCE

Product Information Packet

EM3311T-BG

7.5HP,1770RPM,3PH,60HZ,213T,3733M,OPSB,F

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3734M	Elec. Spec:	37WGS520	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	37N346	Layout:	37LYN346
Frame:	213T	Mounting:	F1	Poles:	04	Created Date:	10-28-2013
Base:	RG	Rotation:	R	Insulation:	H	Eff. Date:	01-19-2017
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1259L										
CAT.NO.	EM3311T-BG									
SPEC.	37N346S520G1									
HP	7.5									
VOLTS	230/460									
AMP	19.4/9.7									
RPM	1770									
FRAME	213T				HZ	60			PH	3
SER.F.	1.15		CODE	J	DES	A		CL	H	
NEMA-NOM-EFF	91		PF	79						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V			23.2		
DE	6307				ODE	6206				
ENCL	OPSB		SN							

Parts List		
Part Number	Description	Quantity
SA271447	SA 37N346S520G1	1.000 EA
RA258075	RA 37N346S520G1	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
37PE3201A80	PU ENDPLATE ASSEMBLY FOR ROUTING	1.000 EA
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 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
LB1508	LABEL "SHAFT GROUNDING BRUSH" 1.50 X .81	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 GA
HA3104A39	THRUBOLT-5/16-18 X 12.250	4.000 EA

Parts List (continued)		
Part Number	Description	Quantity
37AD2001A01	BAFFLE PLATE, STAMPED	2.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA

AC Induction Motor Performance Data
Record # 52783 - Typical performance - not guaranteed values

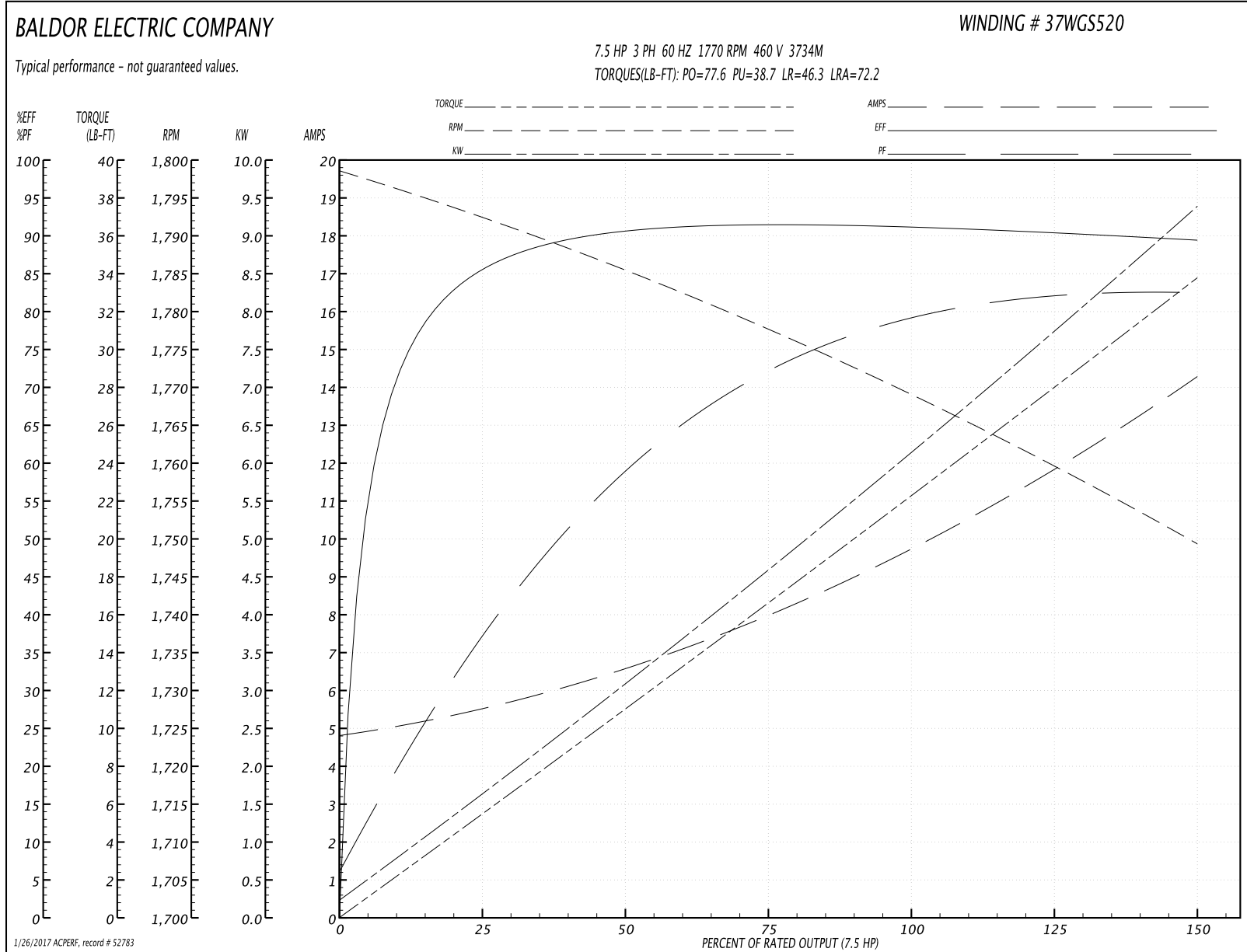
Winding: 37WGS520-R013	Type: 3734M	Enclosure: OPSB
-------------------------------	--------------------	------------------------

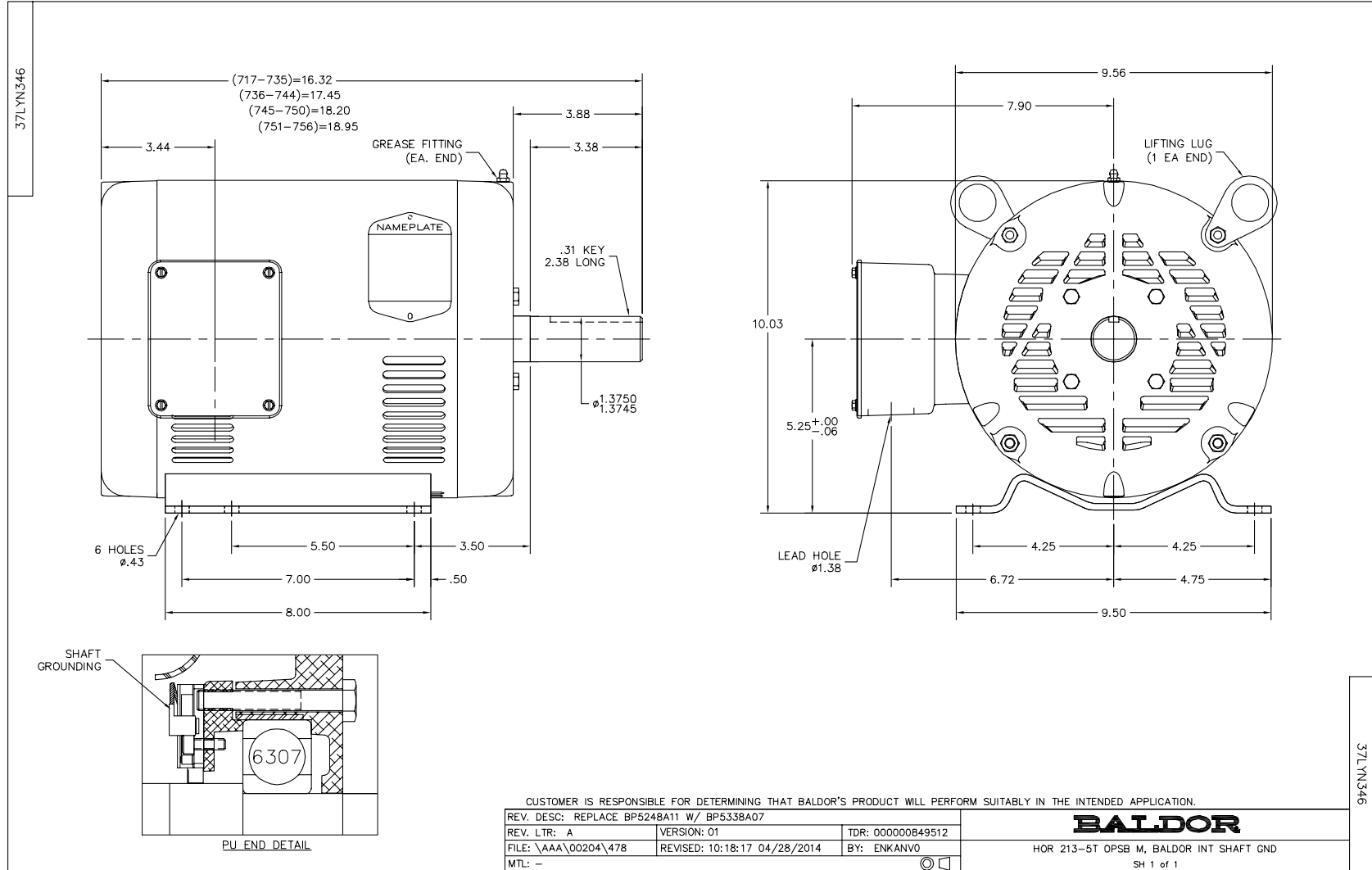
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.4 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	19.4/9.7			Breakdown Torque	77.6 LB-FT
R.P.M.	1770			Pull-up Torque	38.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	46.3 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	72.2 A
Service Factor (S.F.)	1.15			No-load Current	4.94 A
NEMA Nom. Eff.	91	Power Factor	79	Line-line Res. @ 25°C	1.53 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	37°C
S.F. Amps				Temp. Rise @ S.F. Load	45°C
				Locked-rotor Power Factor	39.2
				Rotor inertia	0.836 LB-FT ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	60	72	78	82	83	81
Efficiency	85.1	90.4	91.6	91.3	90.5	89.4	90.7
Speed	1792	1785	1778	1769	1760	1749	1766
Line amperes	5.35	6.5	8.01	9.89	11.9	14.2	11

Performance Graph at 460V, 60Hz, 7.5HP 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