

BALDOR® • RELIANCE

Product Information Packet

EM3311T-5

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

Part Detail							
Revision:	L	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3733M	Elec. Spec:	37WGS840	CD Diagram:	CD0006
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	37F614	Layout:	37LYF614
Frame:	213T	Mounting:	F1	Poles:	04	Created Date:	06-30-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	06-30-2015
Leads:	3#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1259L							
CAT.NO.	EM3311T-5						
SPEC.	37F614S840G1						
HP	7.5						
VOLTS	575						
AMP	7.8						
RPM	1770						
FRAME	213T	HZ	60	PH	3		
SER.F.	1.15	CODE	J	DES	A	CL	F
NEMA-NOM-EFF	91	PF	79				
RATING	40C AMB-CONT						
CC	010A	USABLE AT 208V					
DE	6307	ODE	6206				
ENCL	OPSB	SN					

Parts List		
Part Number	Description	Quantity
SA199520	SA 37F614S840G1	1.000 EA
RA186852	RA 37F614S840G1	1.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	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
37FE3200A01	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
MJ1000A75	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
37AD2001A01	BAFFLE PLATE, STAMPED	2.000 EA
LB1119N	WARNING LABEL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0006	CONNECTION LABEL	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

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

AC Induction Motor Performance Data

Record # 31174 - Typical performance - not guaranteed values

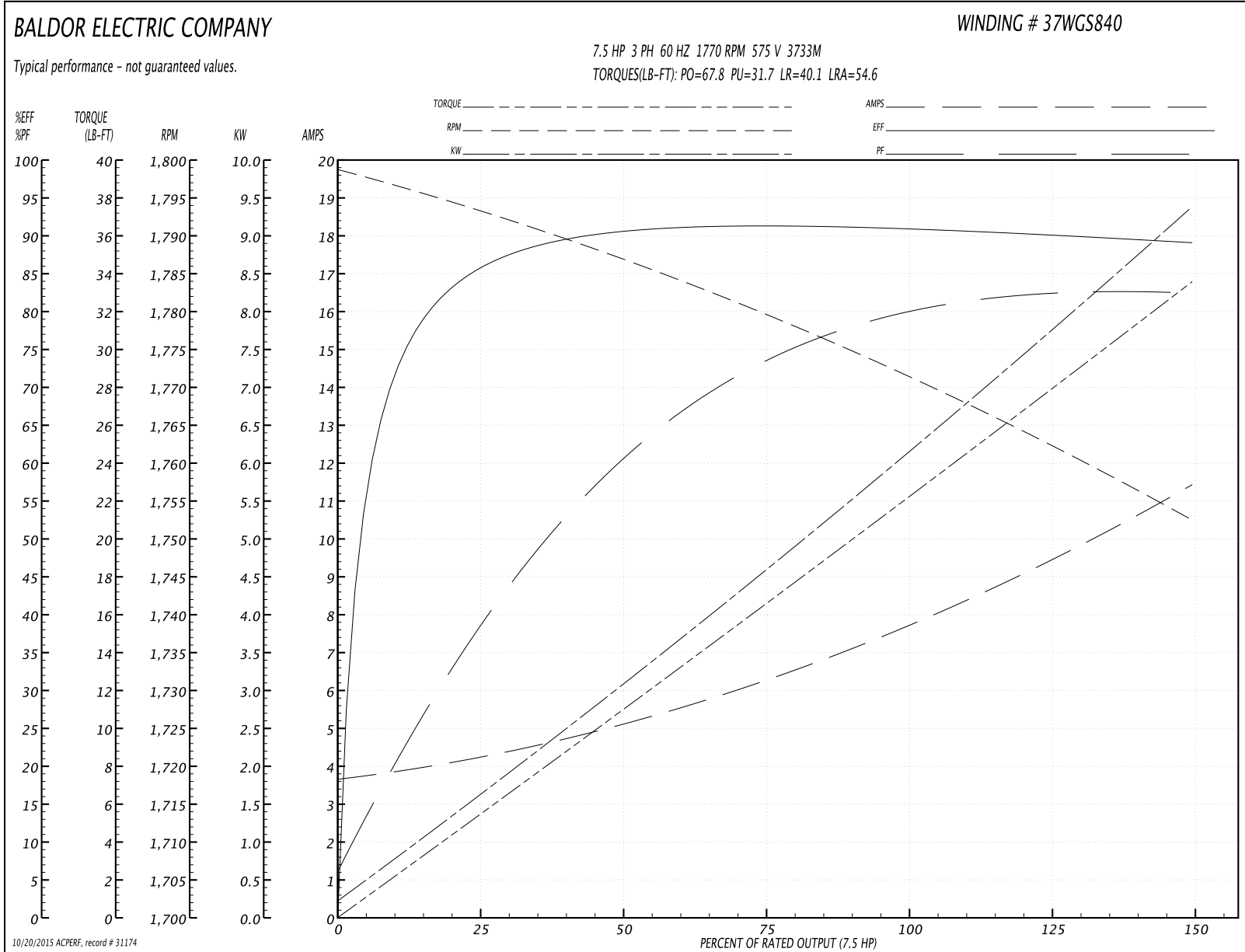
Winding: 37WGS840-R001	Type: 3733M	Enclosure: OPSB
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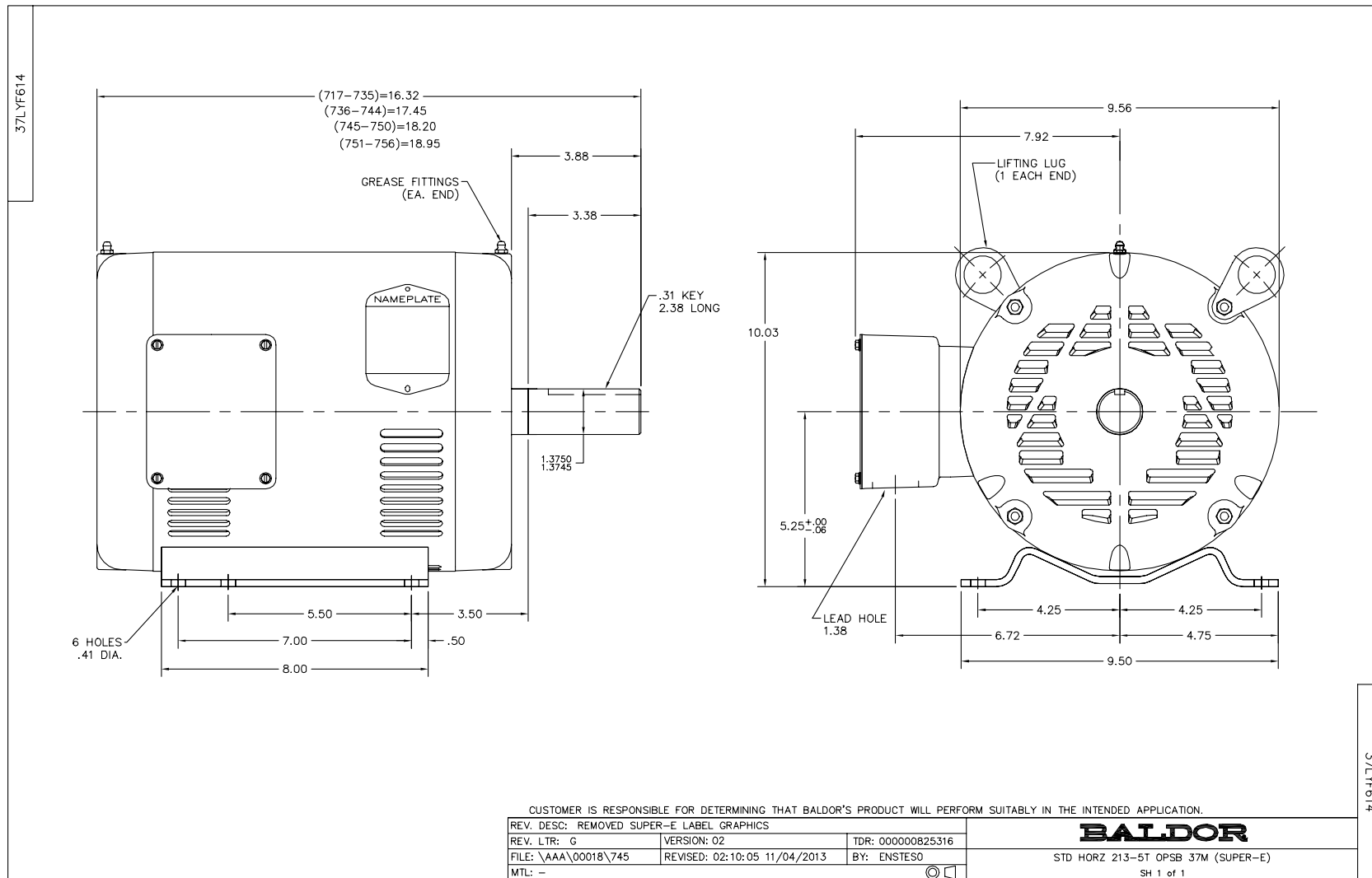
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	7.5			Full Load Torque	22.1 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	7.8			Breakdown Torque	67.8 LB-FT
R.P.M.	1770			Pull-up Torque	31.7 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	40.1 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	54.6 A
Service Factor (S.F.)	1.15			No-load Current	3.74 A
NEMA Nom. Eff.	91	Power Factor	79	Line-line Res. @ 25°C	2.45 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	35°C
S.F. Amps				Temp. Rise @ S.F. Load	43°C
				Rotor inertia	0.811 LB-FT ²

Load Characteristics 575 V, 60 Hz, 7.5 HP

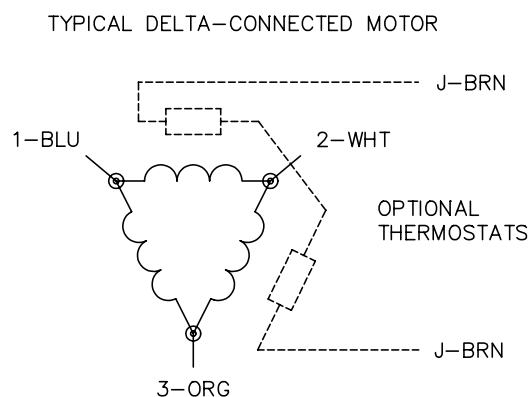
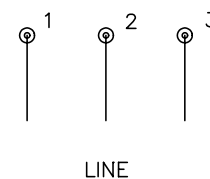
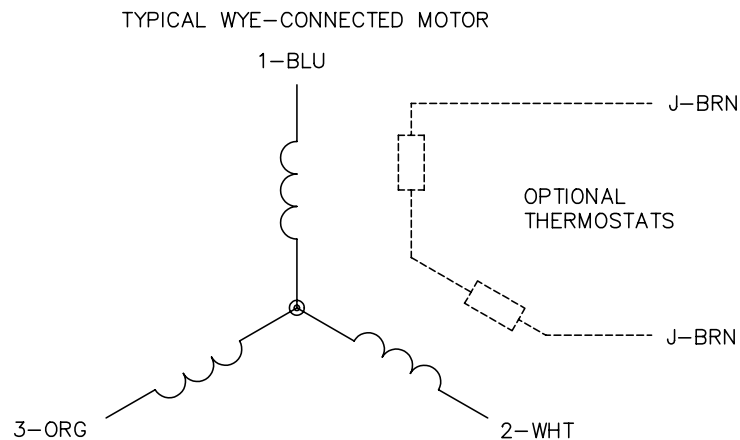
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	73	79	82	83	81
Efficiency	85.5	90.4	91.2	91	90.5	88.9	90.6
Speed	1793	1787	1779	1772	1763	1752	1767
Line amperes	4.14	5.04	6.31	7.79	9.43	11.4	8.77

Performance Graph at 575V, 60Hz, 7.5HP Typical performance - Not guaranteed values





CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

9000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

CD0006