

BALDOR® • RELIANCE

Product Information Packet

VBM3710T

7.5HP,1755RPM,3PH,60HZ,213TC,3728M,TEFC

Part Detail							
Revision:	C	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3728M	Elec. Spec:	37WGS141	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37J051	Layout:	37LYJ051
Frame:	213TC	Mounting:	F1	Poles:	04	Created Date:	01-26-2007
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	11-20-2009
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L									
CAT.NO.	VBM3710T								
SPEC.	37J051S141G1								
HP	7.5								
VOLTS	208-230/460								
AMP	23.5-21.8/10.9								
RPM	1755								
FRAME	213TC	HZ			60	PH	3		
SER.F.	1.15	CODE			J	DES	A	CLASS	F
NEMA-NOM-EFF	87.5	PF			74				
RATING	40C AMB-CONT								
CC		USABLE AT 208V							
DE	6307	ODE			6306				
ENCL	TEFC	SN							

Parts List		
Part Number	Description	Quantity
SA153099	SA 37J051S141G1	1.000 EA
RA141844	RA 37J051S141G1	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
37GS1000SP	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
37EP1301A01	STD FACE MTD ENDPLATE, BRAKE MTG	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A07	W2816-030 WVY WASHER (WB)	1.000 EA
37EP3300A01	FACE MT ENDPLATE-ENCL-307 BRG-213TC-215T	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
84XN5013L12	.50-13 X .75 NYLOK TYPE HEX.SOC.HD.CAP S	4.000 EA
HW2501E10	KEY, 1/4 SQ X 1.000	1.000 EA
37FN5001A01SP	EXFN ASSY, BALTRIC, 8.50 OD, .986 ID	1.000 EA
80XN2520A06	1/4-20 X 3/8 SET SCREW	1.000 EA
37FH5007	STAMPED FAN COVER W/ AUTOPHERETIC PRIMER	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

Parts List (continued)		
Part Number	Description	Quantity
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
MG1000G27	MED CHARCOAL METALLIC GREY	0.028 GA
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 EA
87BK4120EPF	35LB-FT 115/230V STD BK W/SIDE RELEASE	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
37PA1039	PALLET PACK GROUP, PK1148 BOX	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

AC Induction Motor Performance Data

Record # 23416 - Typical performance - not guaranteed values

Winding: 37WGS141-R001	Type: 3728M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	22.4 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	23.5-21.8/10.9			Breakdown Torque	75.4 LB-FT
R.P.M.	1755			Pull-up Torque	43.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	50.9 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	75 A
Service Factor (S.F.)	1.15			No-load Current	6.5 A
NEMA Nom. Eff.	87.5	Power Factor	74	Line-line Res. @ 25°C	1.39 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	75°C
S.F. Amps				Temp. Rise @ S.F. Load	92°C
				Rotor inertia	0.689 LF ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	53	66	74	78	81	76
Efficiency	76	84.4	86.9	87.4	87	86	87.2
Speed	1790	1780	1769	1757	1744	1729	1749
Line amperes	6.8	7.75	9.16	10.9	12.9	15.1	12.1

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

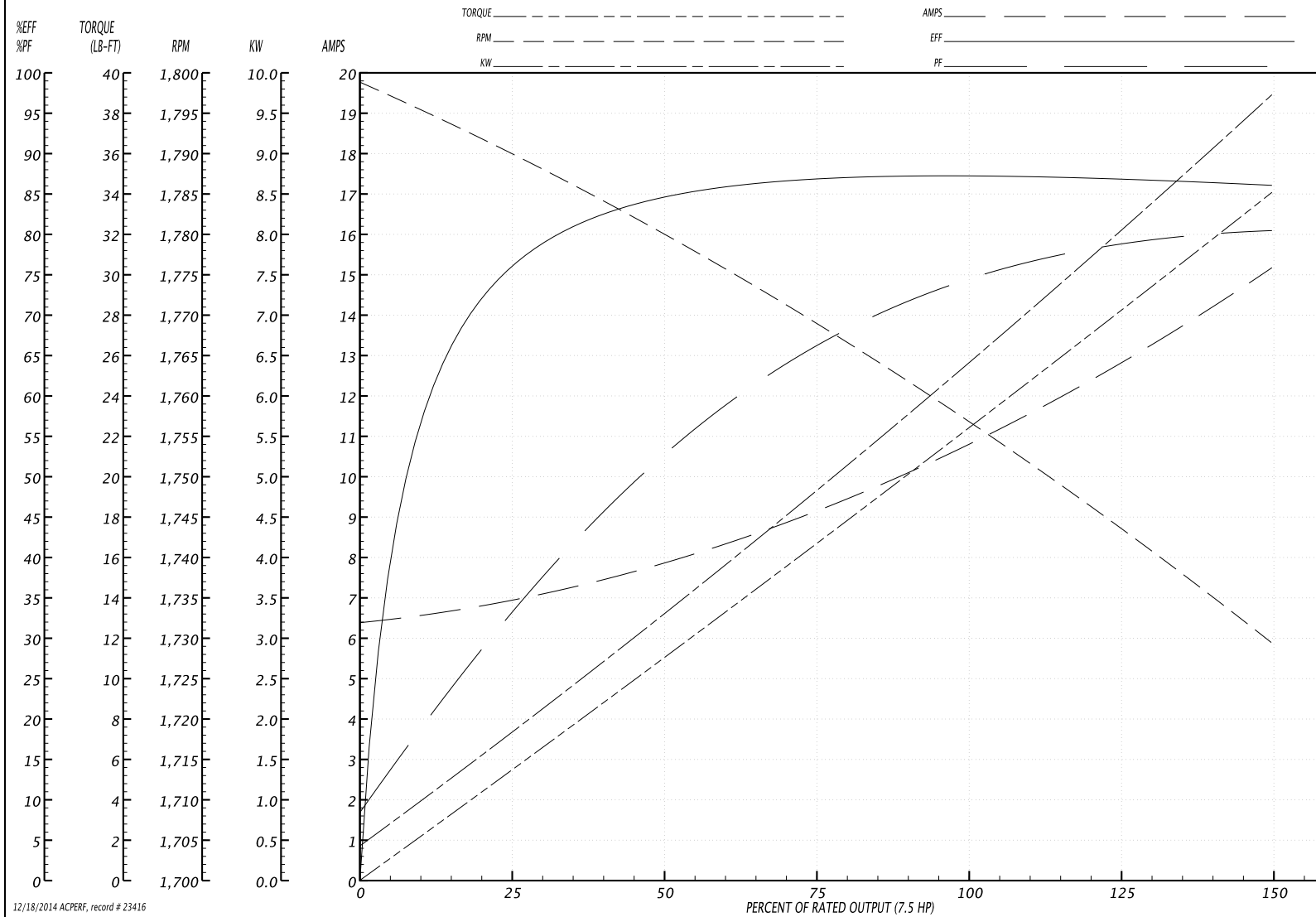
BALDOR ELECTRIC COMPANY

Typical performance - not guaranteed values.

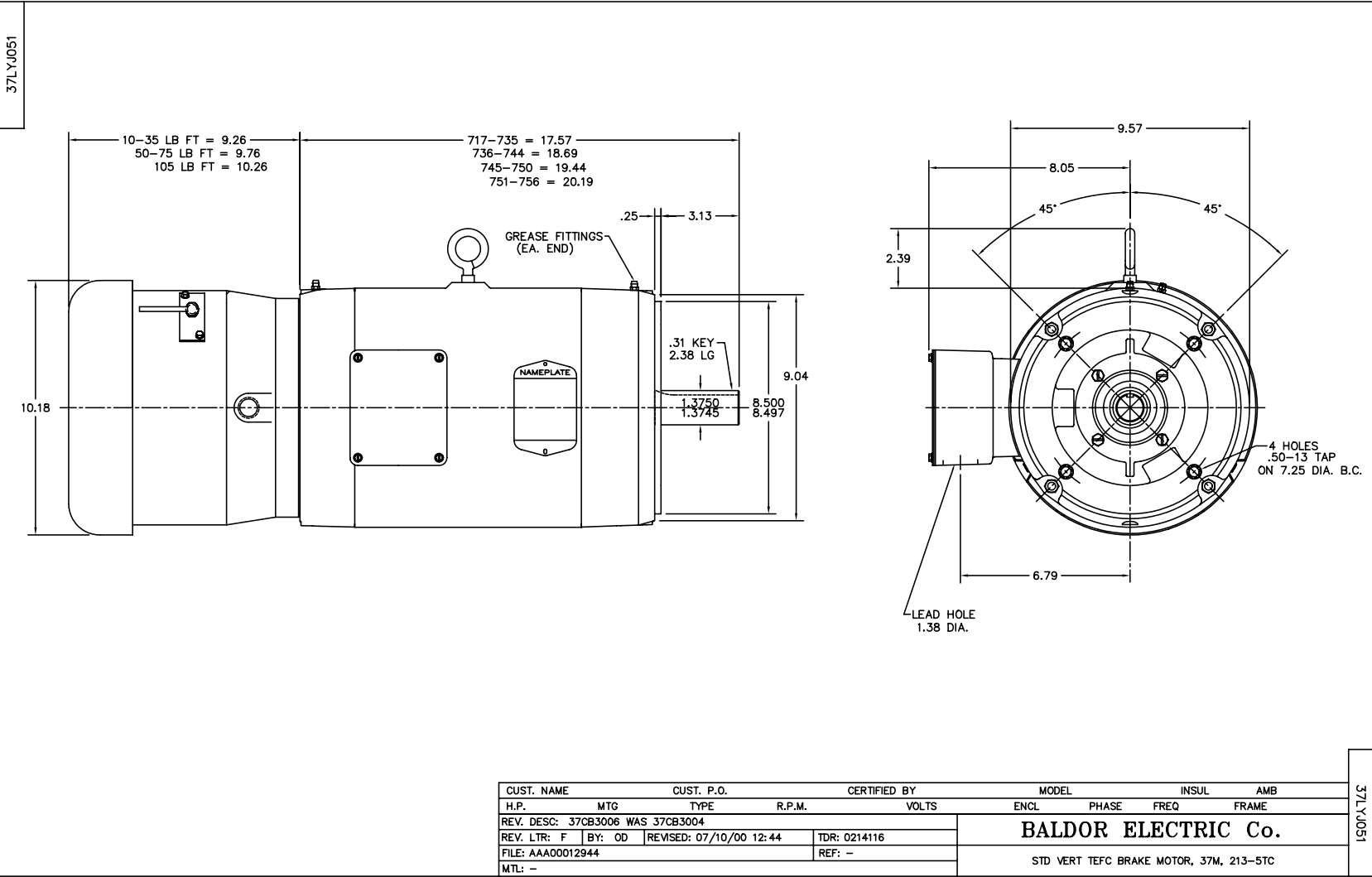
WINDING # 37WGS141

7.5 HP 3 PH 60 HZ 1755 RPM 460 V 3728M

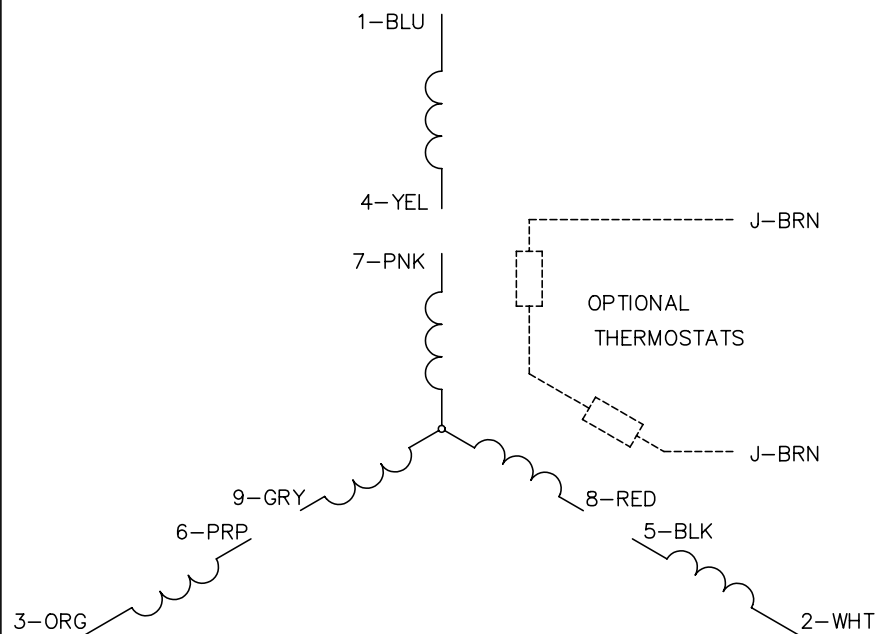
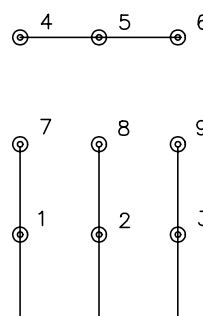
TORQUES(LB-FT): PO=75.4 PU=43.9 LR=50.9 LRA=75



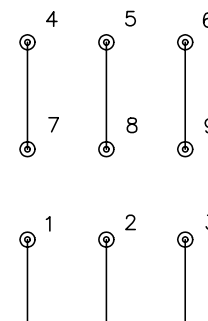
12/18/2014 ACPERF, record # 23416



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