

BALDOR® • RELIANCE

Product Information Packet

VEM3309T

5HP,1160RPM,3PH,60HZ,215TC,3744M,ODP,F1

Part Detail							
Revision:	D	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3744M	Elec. Spec:	37WGS521	CD Diagram:	CD0005
Enclosure:	ODP	Mfg Plant:		Mech. Spec:	37K446	Layout:	37LYK446
Frame:	215TC	Mounting:	F1	Poles:	06	Created Date:	04-29-2015
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	11-09-2016
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1259L

CAT.NO.	VEM3309T													
SPEC.	37K446S521G1													
HP	5													
VOLTS	230/460													
AMP	14.8/7.4													
RPM	1160													
FRAME	215TC					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	ODP			SN										

Parts List		
Part Number	Description	Quantity
SA300123	SA 37K446S521G1	1.000 EA
RA287169	RA 37K446S521G1	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
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
37EP3200A40	FR L&M OPEN W/GRS & DRIP COVER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3400A02	FACE MT EP-OPEN-307 BRG-213-215TC W/BAFF	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
37AD2000A01	BAFFLE PLATE, STAMPED PLATED	1.000 EA
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 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
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
37FH4000A05SP	DRIP COVER, W/ 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
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

Parts List (continued)		
Part Number	Description	Quantity
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.028 GA
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1259L	ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM	1.000 EA
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

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

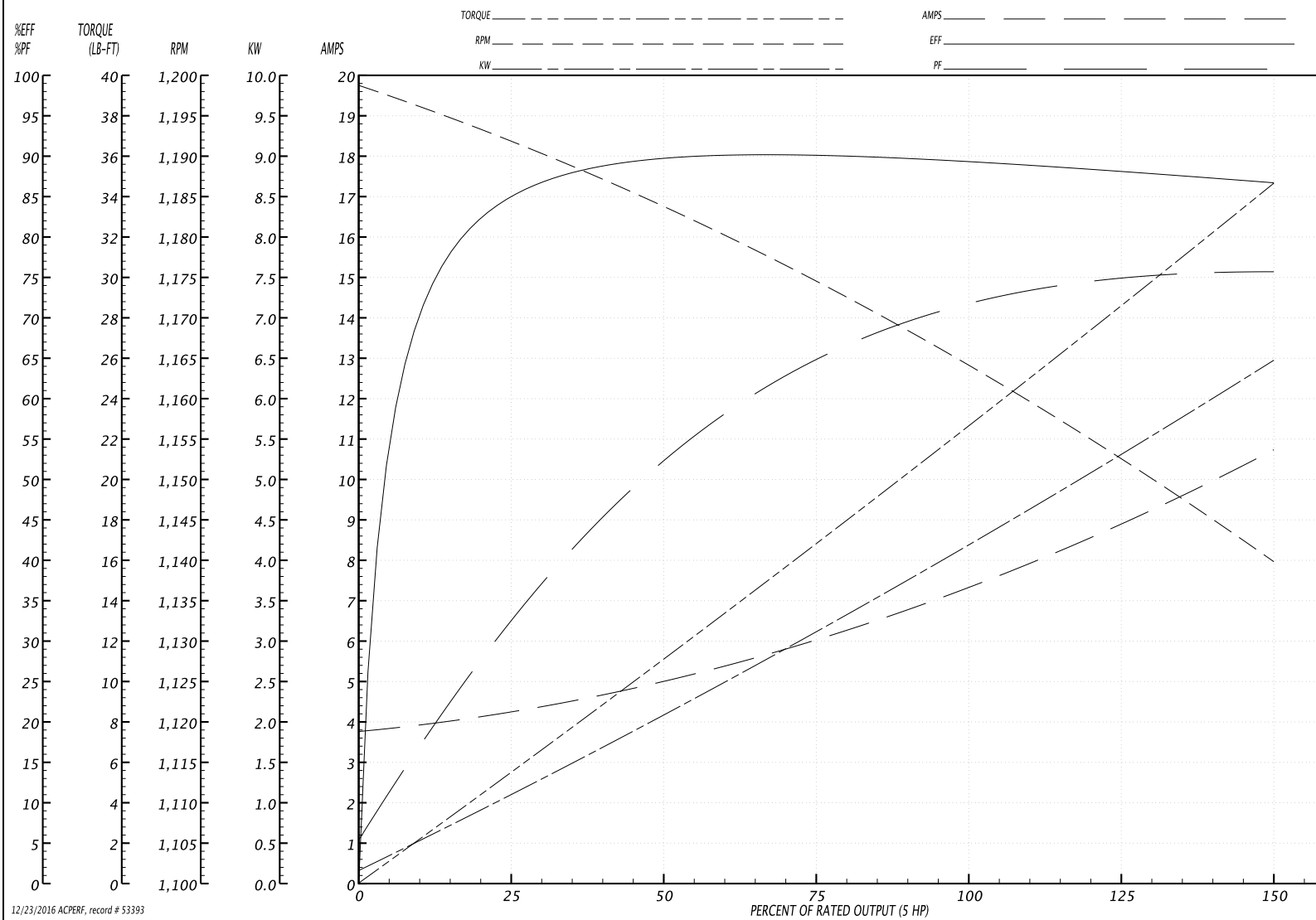
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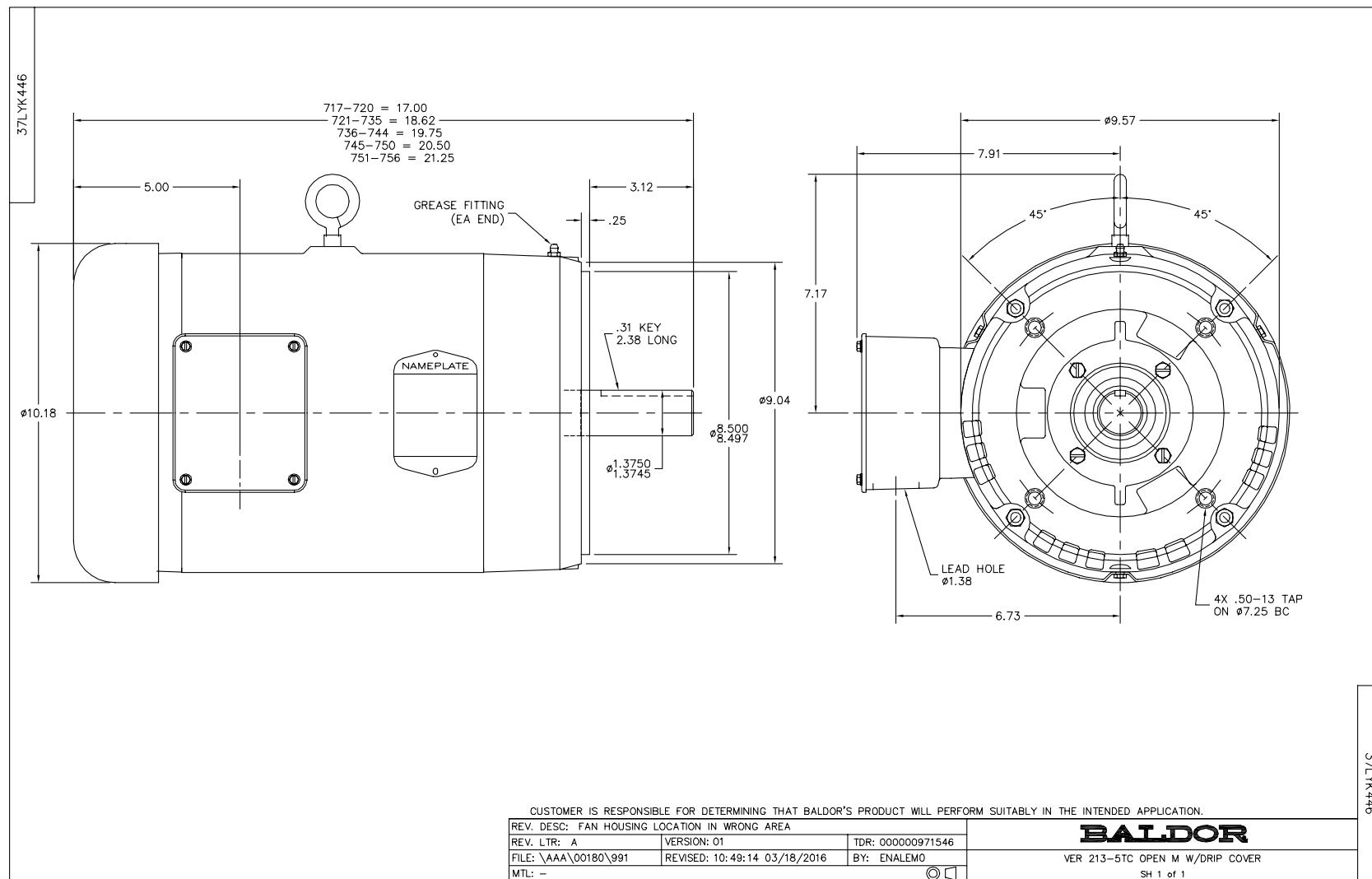
Typical performance - not guaranteed values.

WINDING # 37WGS521

5 HP 3 PH 60 HZ 1160 RPM 460 V 3744M

TORQUES(LB-FT): PO=77.9 PU=47.4 LR=54.8 LRA=53





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