

BALDOR® • RELIANCE

Product Information Packet

EM3157T-5

2HP,1750RPM,3PH,60HZ,145T,3525M,OPSB,F1

Part Detail							
Revision:	J	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3524M	Elec. Spec:	35WGM957	CD Diagram:	CD0006
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	35BB101	Layout:	35LYBB101
Frame:	145T	Mounting:	F1	Poles:	04	Created Date:	11-24-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	11-09-2016
Leads:	3#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3553L

CAT.NO.	EM3157T-5										
SPEC.	35BB101M957G1										
HP	2										
VOLTS	575										
AMP	2.3										
RPM	1750										
FRAME	145T				HZ		60		PH		3
SER.F.	1.15		CODE		K	DES		B	CL		F
NEMA-NOM-EFF	86.5		PF		75						
RATING	40C AMB-CONT										
CC	010A		USABLE AT 208V								
DE	6205		ODE		6203						
ENCL	OPSB		SN								
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

Parts List		
Part Number	Description	Quantity
SA212881	SA 35BB101M957G1	1.000 EA
RA200110	RA 35BB101M957G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
51XB1016A06	10-16X3/8 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35FE3201A01	FREP ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35PE3200A01	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	2.000 EA
HA3100A38	THRUBOLT 10-32 X 9.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 32916 - Typical performance - not guaranteed values

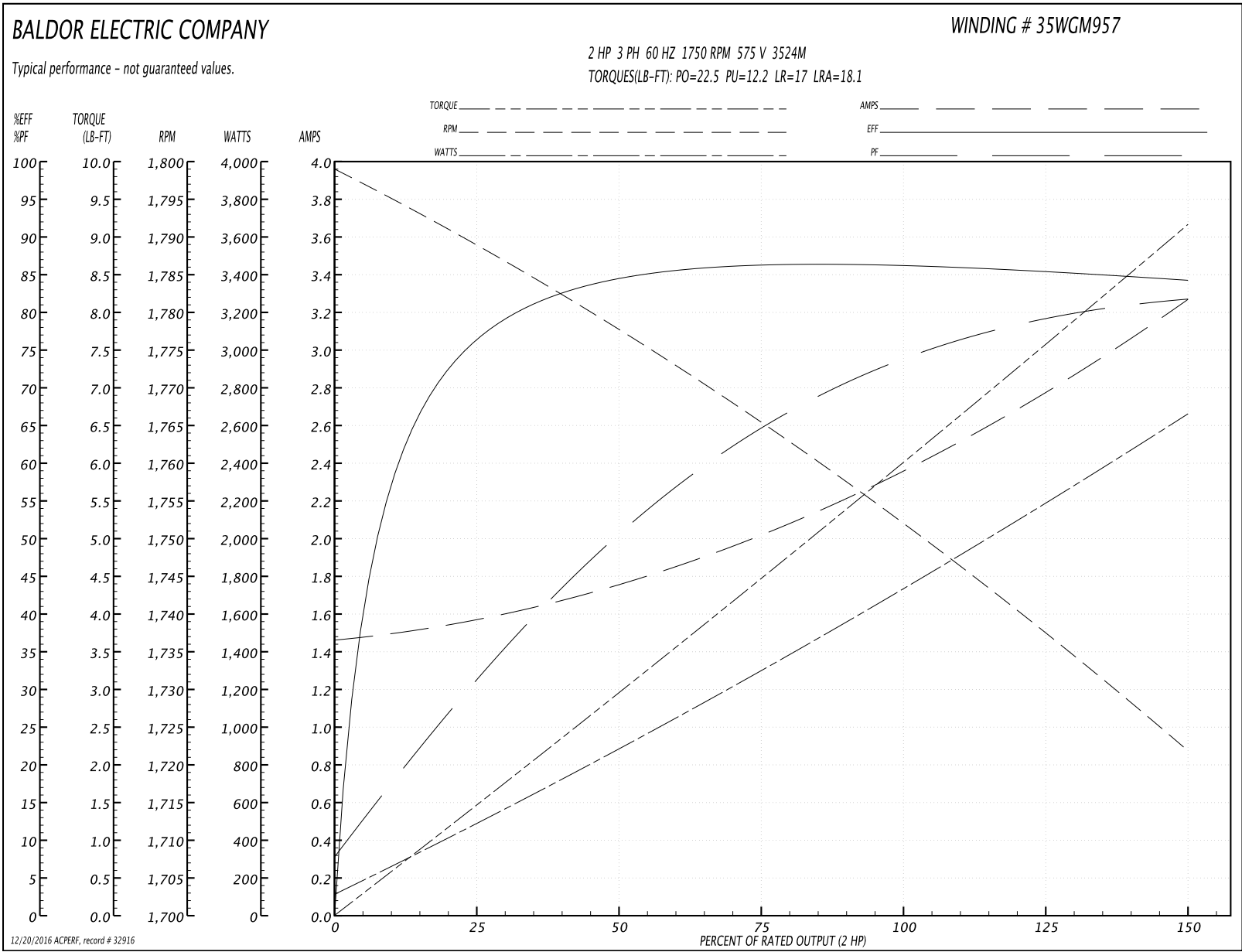
Winding: 35WGM957-R001	Type: 3524M	Enclosure: OPSB
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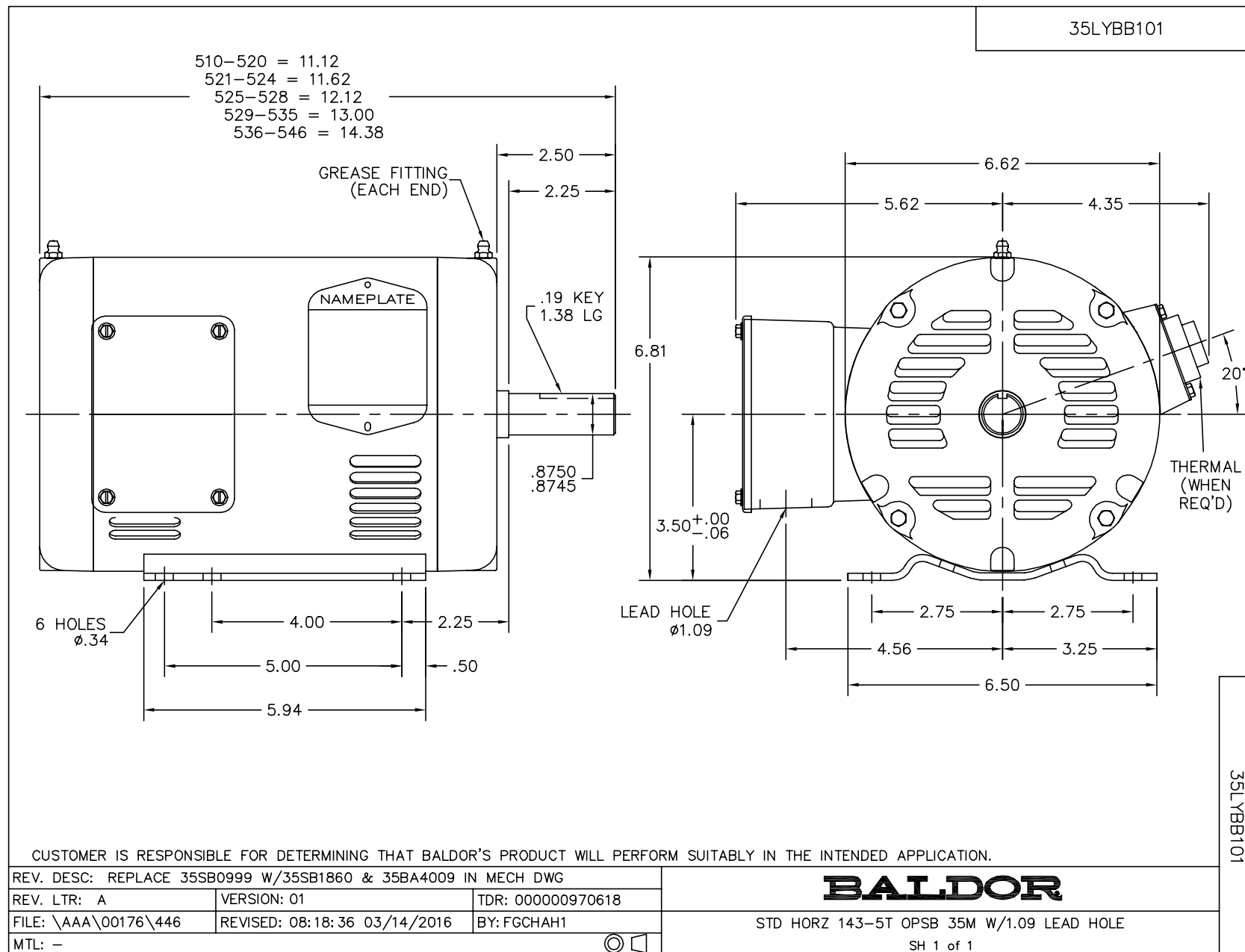
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	2			Full Load Torque	6.02 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	2.3			Breakdown Torque	22.5 LB-FT
R.P.M.	1750			Pull-up Torque	12.2 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	17 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	18.1 A
Service Factor (S.F.)	1.15			No-load Current	1.48 A
NEMA Nom. Eff.	86.5	Power Factor	75	Line-line Res. @ 25°C	13 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	53.2
				Rotor inertia	0.142 LB-FT ²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	52	64	73	79	82	78
Efficiency	76.4	84.3	86.2	86.4	85.6	84.2	86.1
Speed	1789	1777	1766	1752	1737	1722	1749
Line amperes	1.55	1.74	2.03	2.38	2.78	3.26	2.56

Performance Graph at 575V, 60Hz, 2.0HP Typical performance - Not guaranteed values





CD0006

TYPICAL WYE-CONNECTED MOTOR

1-BLU

J-BRN

OPTIONAL THERMOSTATS

J-BRN

3-ORG

2-WHT

1

2

3

LINE

TYPICAL DELTA-CONNECTED MOTOR

1-BLU

J-BRN

2-WHT

OPTIONAL THERMOSTATS

J-BRN

3-ORG

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				BALDOR ELECTRIC Co.	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
REV. LTR: D	BY: JLP	REVISED: 01/21/99 4:02	TDR: 0171435		
9000D		FILE: AAA00005141	MDL: -		
		MTL: -			

CD0006

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