

BALDOR® • ***RELIANCE***

Product Information Packet

M3161T

3HP,1745RPM,3PH,60HZ,145T,3536M,OPSB,F1

Part Detail							
Revision:	D	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGP741	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35B101	Layout:	35LYB101	Poles:	04	Created Date:	05-21-2008
Base:	RG	Eff. Date:	06-17-2009	Leads:	9#18		

Specs			
Catalog Number:	M3161T	Insulation Class:	B
Enclosure:	ODP	Inverter Code:	Not Inverter
Frame:	145T	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	3.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	208.0 V @ 60 HZ	Motor Type:	3536M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	80
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	4.100 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

	8.200 A @ 230.0 V	Shaft Rotation:	Reversible
	8.900 A @ 208.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1256L										
CAT.NO.	M3161T									
SPEC.	35B101P741H1									
HP	3									
VOLTS	208-230/460									
AMP	8.9-8.2/4.1									
RPM	1745									
FRAME	145T				HZ	60			PH	3
SER.F.	1.15		CODE	K	DES	B		CLASS	B	
NEMA-NOM-EFF	86.5		PF	80						
RATING	40C AMB-CONT									
CC	010A				USABLE AT 208V					
DE	6205				ODE	6203				
ENCL	OPSB		SN							

Parts List		
Part Number	Description	Quantity
SA171464	SA 35B101P741H1	1.000 EA
RA159691	RA 35B101P741H1	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3209A00	FREP ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3210A00	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
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
HA3100A26	THRUBOLT 10-32 X 11.500	4.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1100/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 # 27548 - Typical performance - not guaranteed values

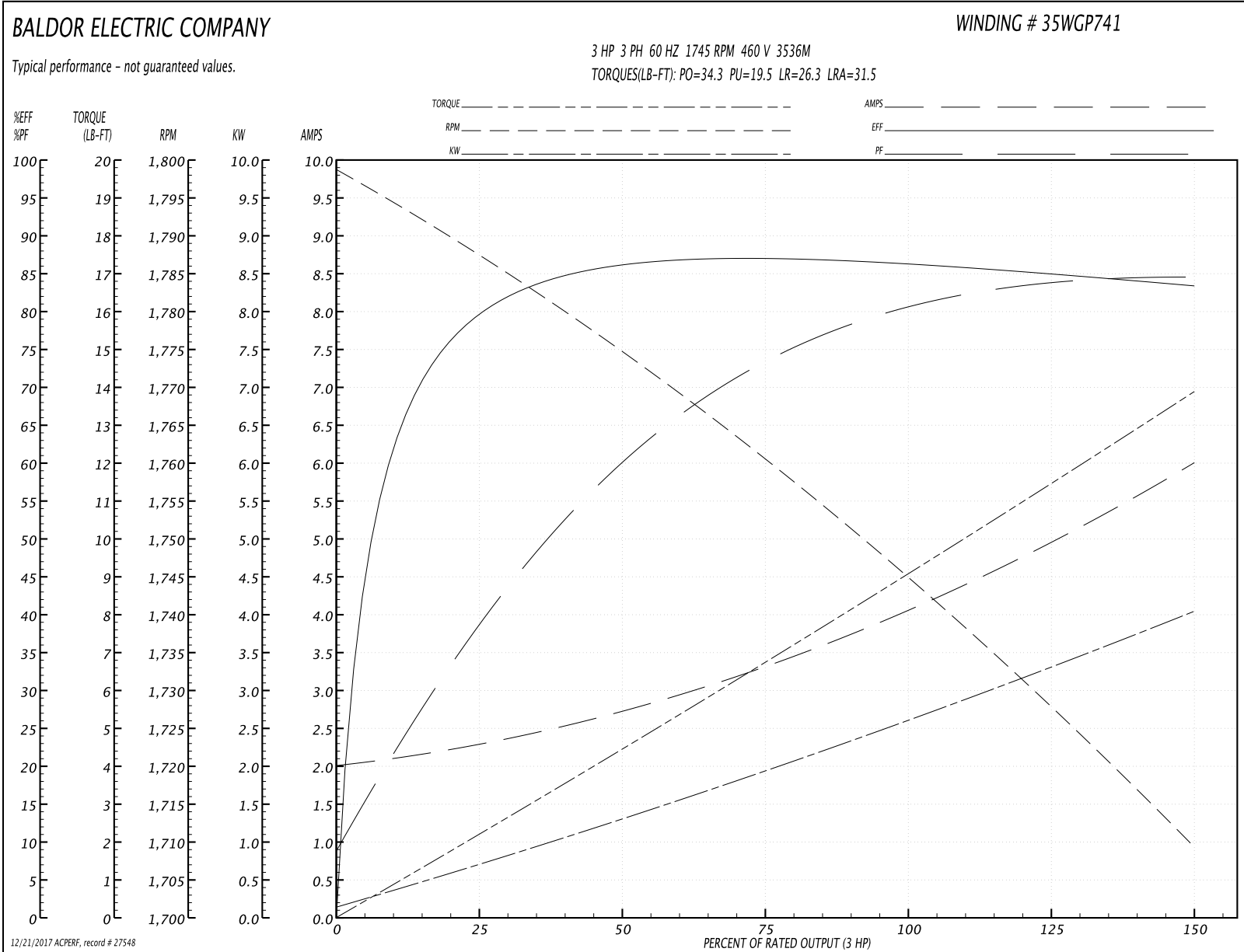
Winding: 35WGP741-R001	Type: 3536M	Enclosure: OPSB
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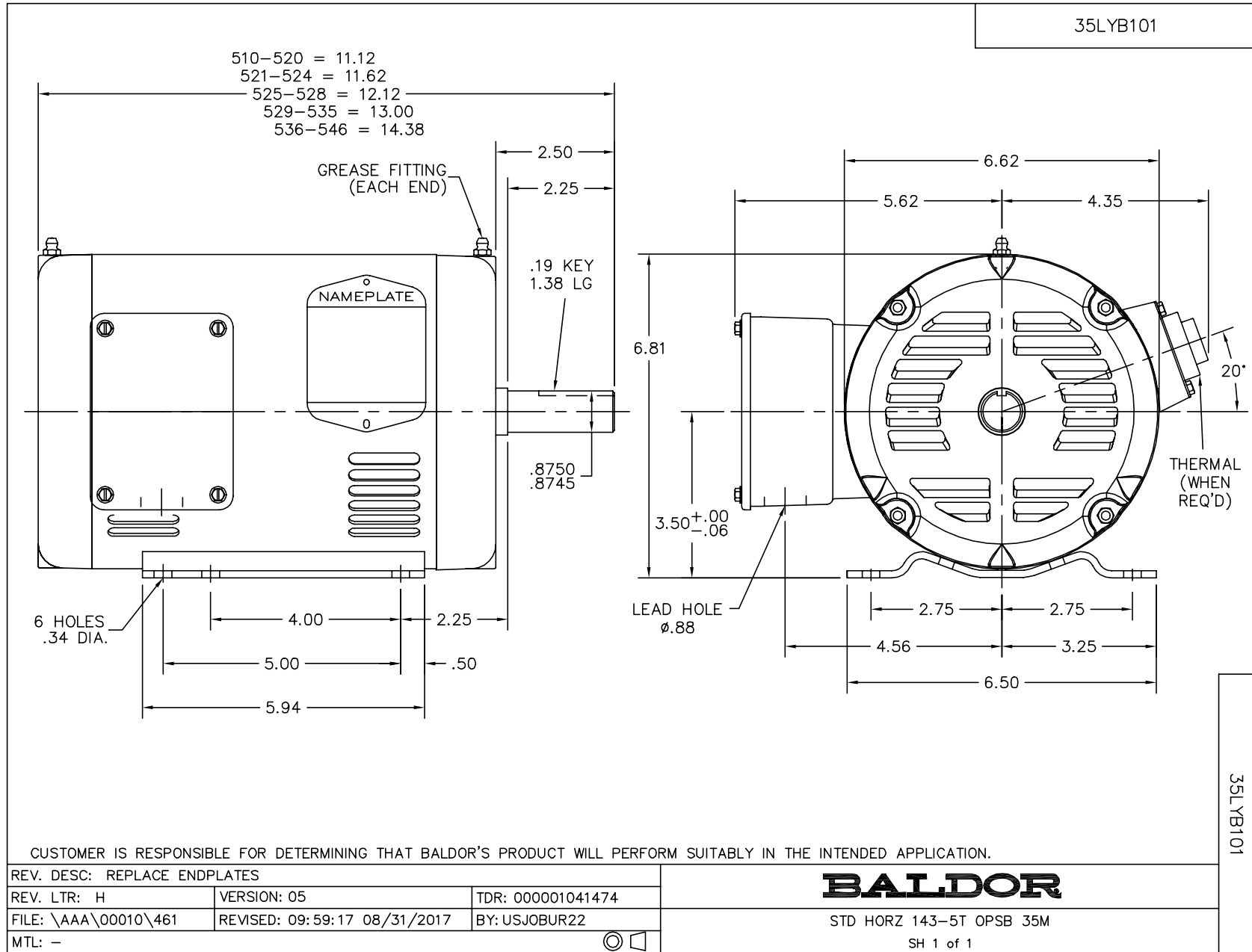
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	3			Full Load Torque	9.07 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	8.9-8.2/4.1			Breakdown Torque	34.3 LB-FT
R.P.M.	1745			Pull-up Torque	19.5 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	26.3 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	31.5 A
Service Factor (S.F.)	1.15			No-load Current	2.04 A
NEMA Nom. Eff.	86.5	Power Factor	80	Line-line Res. @ 25°C	5.31 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	54°C
S.F. Amps				Temp. Rise @ S.F. Load	68°C
				Locked-rotor Power Factor	47
				Rotor inertia	0.213 LB-FT ²

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	40	62	73	80	83	85	82
Efficiency	79.9	86.1	87.2	86.7	85.2	83.4	85.8
Speed	1787	1774	1760	1745	1728	1709	1735
Line amperes	2.26	2.72	3.35	4.08	5	5.98	4.63

Performance Graph at 460V, 60Hz, 3.0HP Typical performance - Not guaranteed values

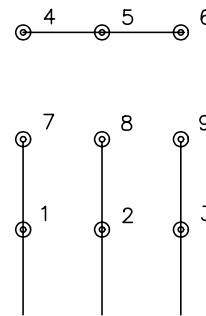




CD0005

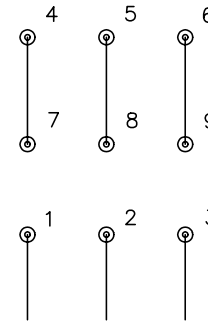


LOW VOLTAGE
(2Y)



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