

BALDOR® • RELIANCE 

Product Information Packet

EM3212T-G

5HP,3450RPM,3PH,60HZ,182T,3622M,OPSB,F1

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	36WGS040	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	36M526	Layout:	36LYM526	Poles:	02	Created Date:	12-06-2011
Base:	RG	Eff. Date:	07-19-2017	Leads:	9#16		

Specs			
Catalog Number:	EM3212T-G	Insulation Class:	H
Enclosure:	OPSB	Inverter Code:	Inverter Ready
Frame:	182T	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	5.000 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 16 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3622M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	91
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Current @ Voltage:	12.000 A @ 230.0 V	Shaft Ground Indicator:	Shaft Grounding
	12.800 A @ 208.0 V	Shaft Rotation:	Reversible
	6.000 A @ 460.0 V	Shaft Slinger Indicator:	No Slinger
Design Code:	A	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 (OLD)
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 NP3553L											
CAT.NO.	EM3212T-G										
SPEC	36M526S040G1										
HP	5										
VOLTS	230/460										
AMPS	12/6										
RPM	3450										
FRAME	182T					HZ	60			PH	3
SF	1.15			CODE	K	DES	A		CLASS	H	
NEMA NOM. EFF	86.5			PF	91						
RATING	40C AMB-CONT										
CC	010A					USABLE AT 208V					12.8
ENCL	OPSB			SER							
DE	6206				ODE	6205					
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

Parts List		
Part Number	Description	Quantity
SA235316	SA 36M526S040G1	1.000 EA
RA222278	RA 36M526S040G1	1.000 EA
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
36EP3200A01	FR ENDPLATE, ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 EA
36PE3201A39	PU ENDPLATE, ASSEMBLY FOR ROUTING	1.000 EA
10XN2520A20	1/4-20X 1 1/4 HEX HD X	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY2520A12	1/4-20 HEX NUT, DIRECTIONAL SERRATIONS	4.000 EA
36CB4516	36 LIPPED CB LID - GALVANNEAL	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E16	KEY, 1/4 SQ X 1.750	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
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 EA
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL CSA-	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1100/bx) 11/14	1.000 EA
LB1350	BAR CODE LABEL FOR YORK	1.000 EA

AC Induction Motor Performance Data

Record # 53355 - Typical performance - not guaranteed values

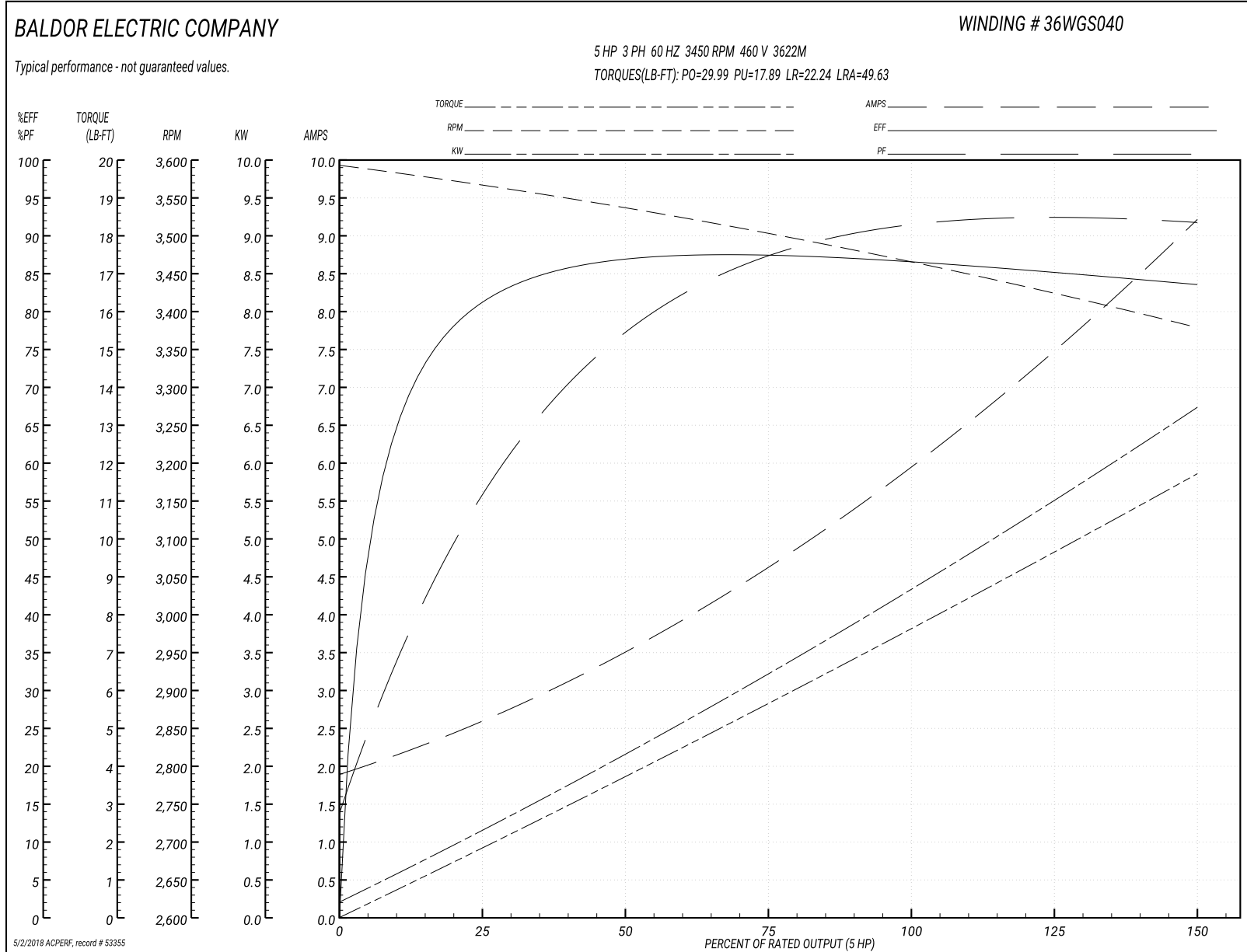
Winding: 36WGS040-R015	Type: 3622M	Enclosure: OPSB
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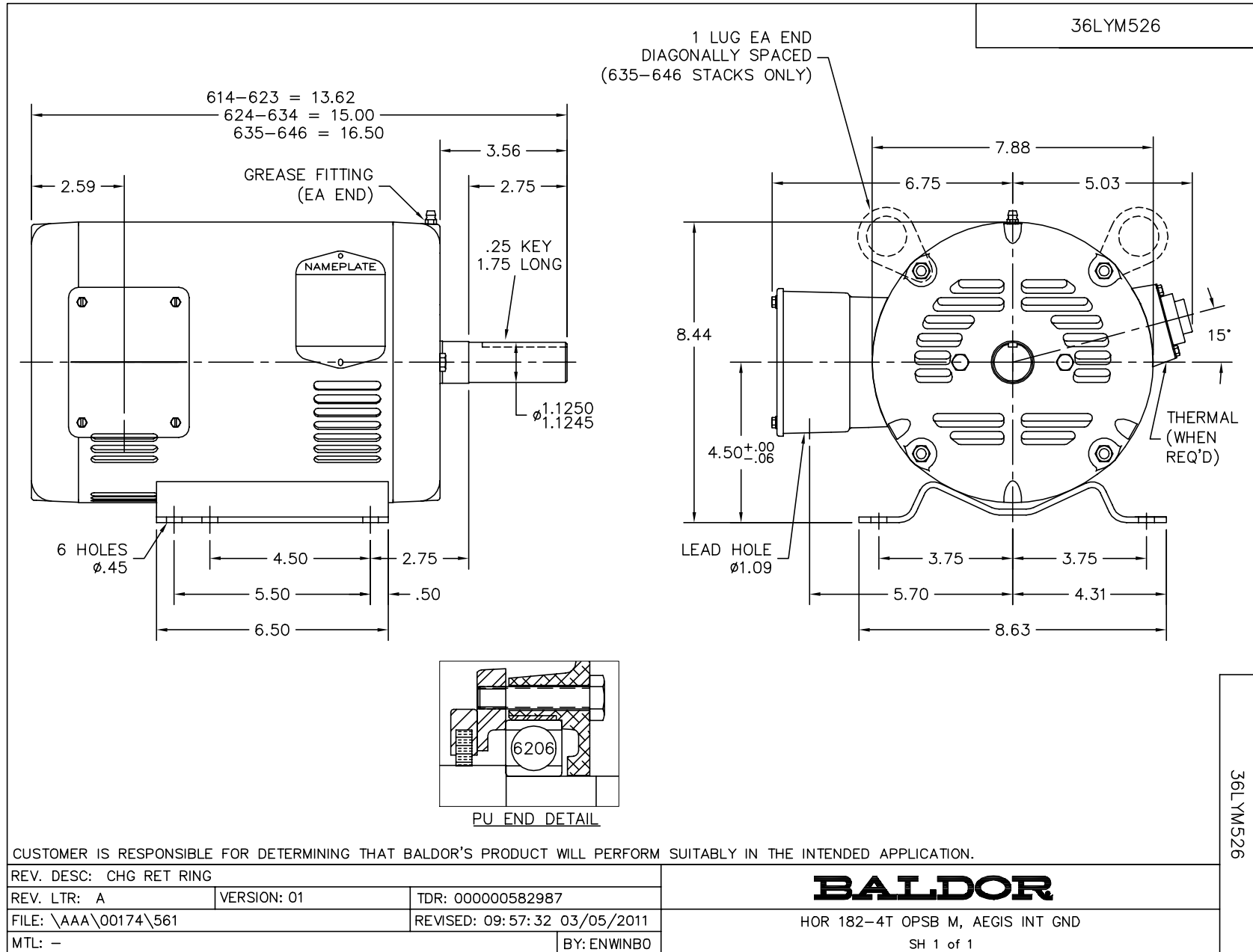
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	7.66 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	12/6			Breakdown Torque	29.99 LB-FT
R.P.M.	3450			Pull-up Torque	17.89 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	22.24 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	49.63 A
Service Factor (S.F.)	1.15			No-load Current	1.99 A
NEMA Nom. Eff.	86.5	Power Factor	91	Line-line Res. @ 25°C	3.07 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	34°C
S.F. Amps				Temp. Rise @ S.F. Load	42°C
				Locked-rotor Power Factor	49.2
				Rotor inertia	0.0988 LB-FT ²

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	61	79	87	90	92	93	92
Efficiency	81.4	86.5	87.6	86.6	85.3	83.5	86.1
Speed	3566	3535	3503	3465	3423	3379	3445
Line amperes	2.5	3.49	4.68	6.06	7.56	9.15	6.91

Performance Graph at 460V, 60Hz, 5.0HP 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