

# **BALDOR® • RELIANCE**

## **Product Information Packet**

# **EFM3212T**

**5HP,3450RPM,3PH,60HZ,182T,3623M,OPSB,F2**

Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3623M	Elec. Spec:	36WGS040	CD Diagram:	CD0005
Enclosure:	OPSB	Mfg Plant:		Mech. Spec:	36B106	Layout:	36LYB106
Frame:	182T	Mounting:	F2	Poles:	02	Created Date:	04-22-2013
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	11-09-2016
Leads:	9#16					Replaced By:	
Literature:		Elec. Diagram:					

<b>Nameplate NP3553L</b>										
<b>CAT.NO.</b>	EFM3212T									
<b>SPEC.</b>	36B106S040G1									
<b>HP</b>	5									
<b>VOLTS</b>	230/460									
<b>AMP</b>	12/6									
<b>RPM</b>	3450									
<b>FRAME</b>	182T				<b>HZ</b>	60			<b>PH</b>	3
<b>SER.F.</b>	1.15		<b>CODE</b>	K	<b>DES</b>	A		<b>CL</b>	F	
<b>NEMA-NOM-EFF</b>	86.5		<b>PF</b>	91						
<b>RATING</b>	40C AMB-CONT									
<b>CC</b>	010A				<b>USABLE AT 208V</b>			12.8		
<b>DE</b>	6206				<b>ODE</b>	6205				
<b>ENCL</b>	OPSB		<b>SN</b>							
VPWM INVERTER READY										
CT30-60(2:1) VT3-60(20:1)										

Parts List		
Part Number	Description	Quantity
SA261916	SA 36B106S040G1	1.000 EA
RA248653	RA 36B106S040G1	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 #8 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
36PE3201A01	PU ENDPLATE, ASSEMBLY FOR ROUTING	1.000 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	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501E18	KEY, 1/4 SQ X 2.000	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
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
36AD2004A01	BAFFLE PLATE,MOD 36-SLTD BAND MTRS DELTA	2.000 EA
HA3101A23	THRUBOLT 1/4-20 X 9.625 DEMBY	4.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3553L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

**AC Induction Motor Performance Data**

Record # 53354 - Typical performance - not guaranteed values

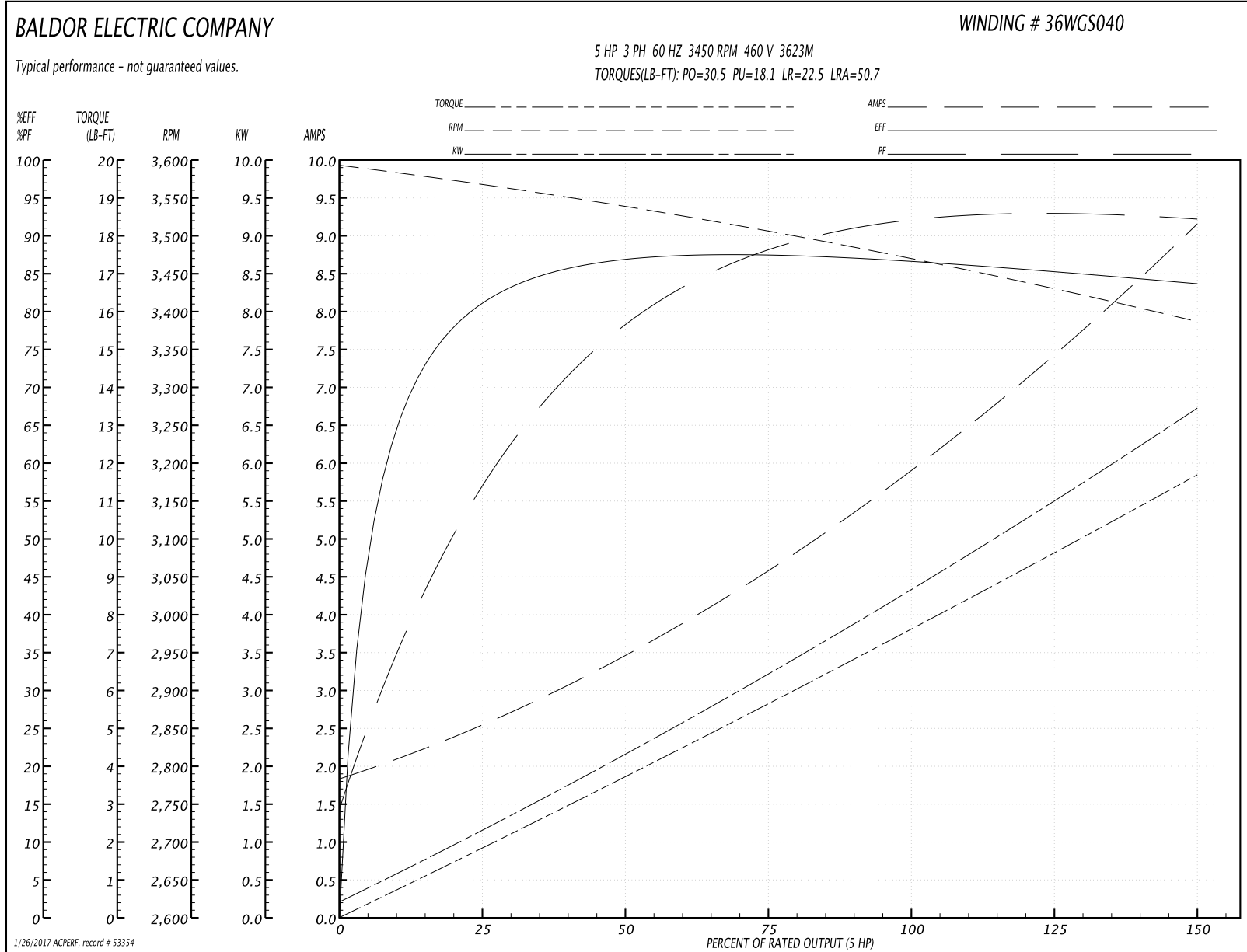
<b>Winding:</b> 36WGS040-R014	<b>Type:</b> 3623M	<b>Enclosure:</b> OPSB
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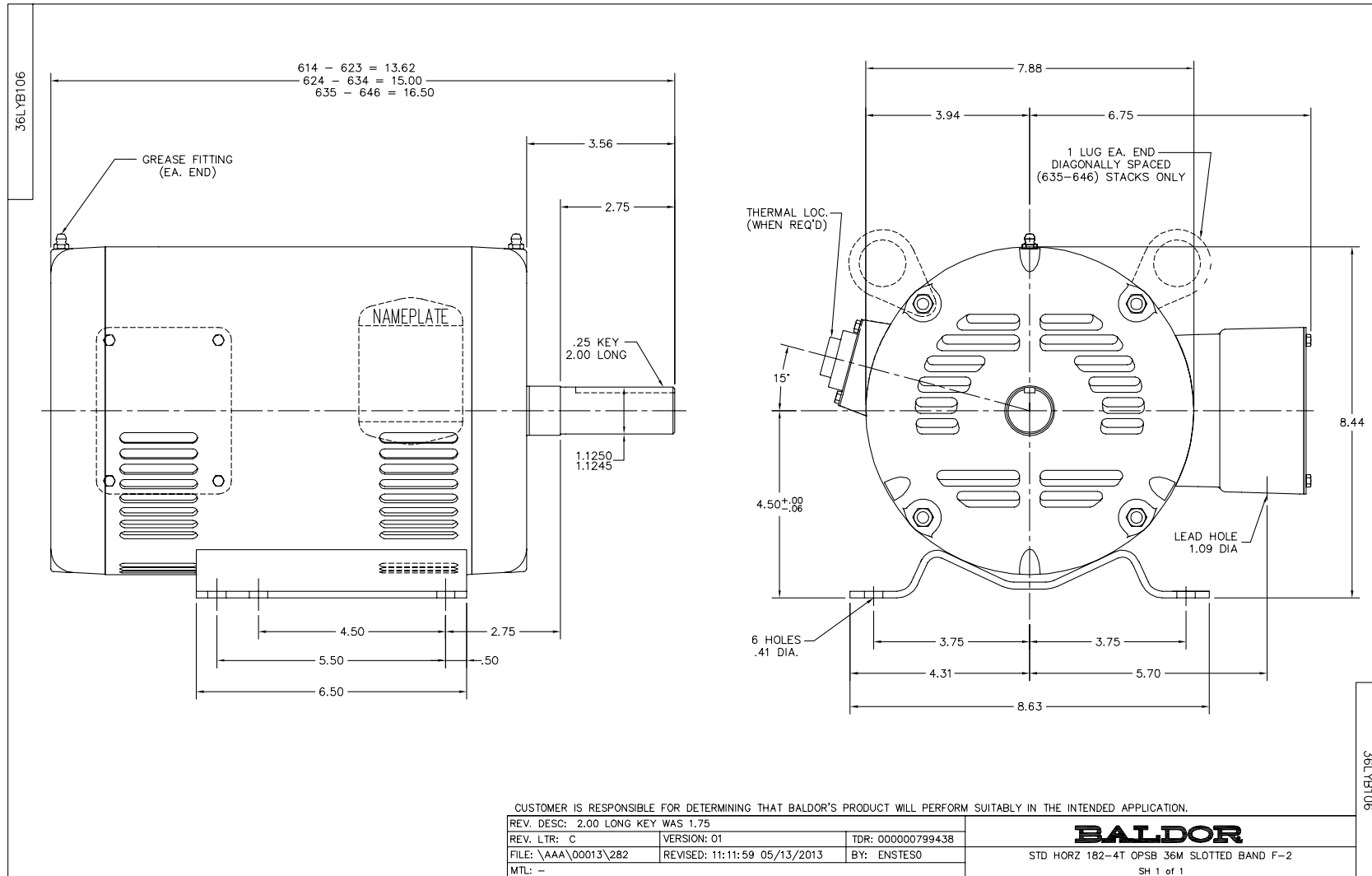
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	5			Full Load Torque	7.66 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	12/6			Breakdown Torque	30.5 LB-FT
R.P.M.	3450			Pull-up Torque	18.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	22.5 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	50.7 A
Service Factor (S.F.)	1.15			No-load Current	1.93 A
NEMA Nom. Eff.	86.5	Power Factor	91	Line-line Res. @ 25°C	3.06 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	50
				Rotor inertia	0.103 LB-FT <sup>2</sup>

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	81	88	91	92	93	92
Efficiency	81.1	86.7	87.6	86.9	85.5	83.7	86.1
Speed	3567	3537	3506	3469	3429	3387	3445
Line amperes	2.45	3.44	4.64	6.02	7.51	9.09	6.91

Performance Graph at 460V, 60Hz, 5.0HP Typical performance - Not guaranteed values





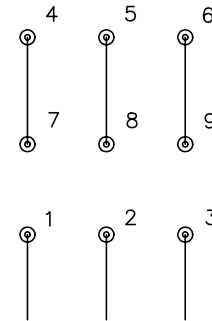
CD0005



LOW VOLTAGE  
(2Y)



HIGH VOLTAGE  
(1Y)



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
90000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005