

**BALDOR • RELIANCE**

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# Customer information packet

## EFM3212T

5HP, 3450RPM, 3PH, 60HZ, 182T, 3622M, OPSB, F2

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPSB
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.800 A @ 208.0 V 6.000 A @ 460.0 V 12.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

## Part detail

Revision	R
Type	AC
Mech. spec.	36B106
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LYB106
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-22-2013

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3622M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	13.62 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

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

**AC Induction Motor Performance Data**

Record # 53354

Typical performance - not guaranteed values

<b>Winding: 36WGS040-R014</b>		<b>Type: 3622M</b>		<b>Enclosure: OPSB</b>	
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	5	<b>Full Load Torque</b>	7.66 LB-FT		
<b>Volts</b>	230/460	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	12/6	<b>Breakdown Torque</b>	29.99 LB-FT		
<b>R.P.M.</b>	3450	<b>Pull-up Torque</b>	17.89 LB-FT		
<b>Hz</b>	60 Phase	<b>Locked-rotor Torque</b>	22.24 LB-FT		
<b>NEMA Design Code</b>	A	<b>Starting Current</b>	49.63 A		
<b>Service Factor (S.F.)</b>	1.15	<b>No-load Current</b>	1.99 A		
<b>NEMA Nom. Eff.</b>	86.5	<b>Line-line Res. @ 25°C</b>	3.07 Ω		
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	34°C		
<b>S.F. Amps</b>		<b>Temp. Rise @ S.F. Load</b>	42°C		
		<b>Locked-rotor Power Factor</b>	49.2		
		<b>Rotor inertia</b>	0.0988 LB-FT <sup>2</sup>		

**Load Characteristics 460 V, 60 Hz, 5 HP**

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

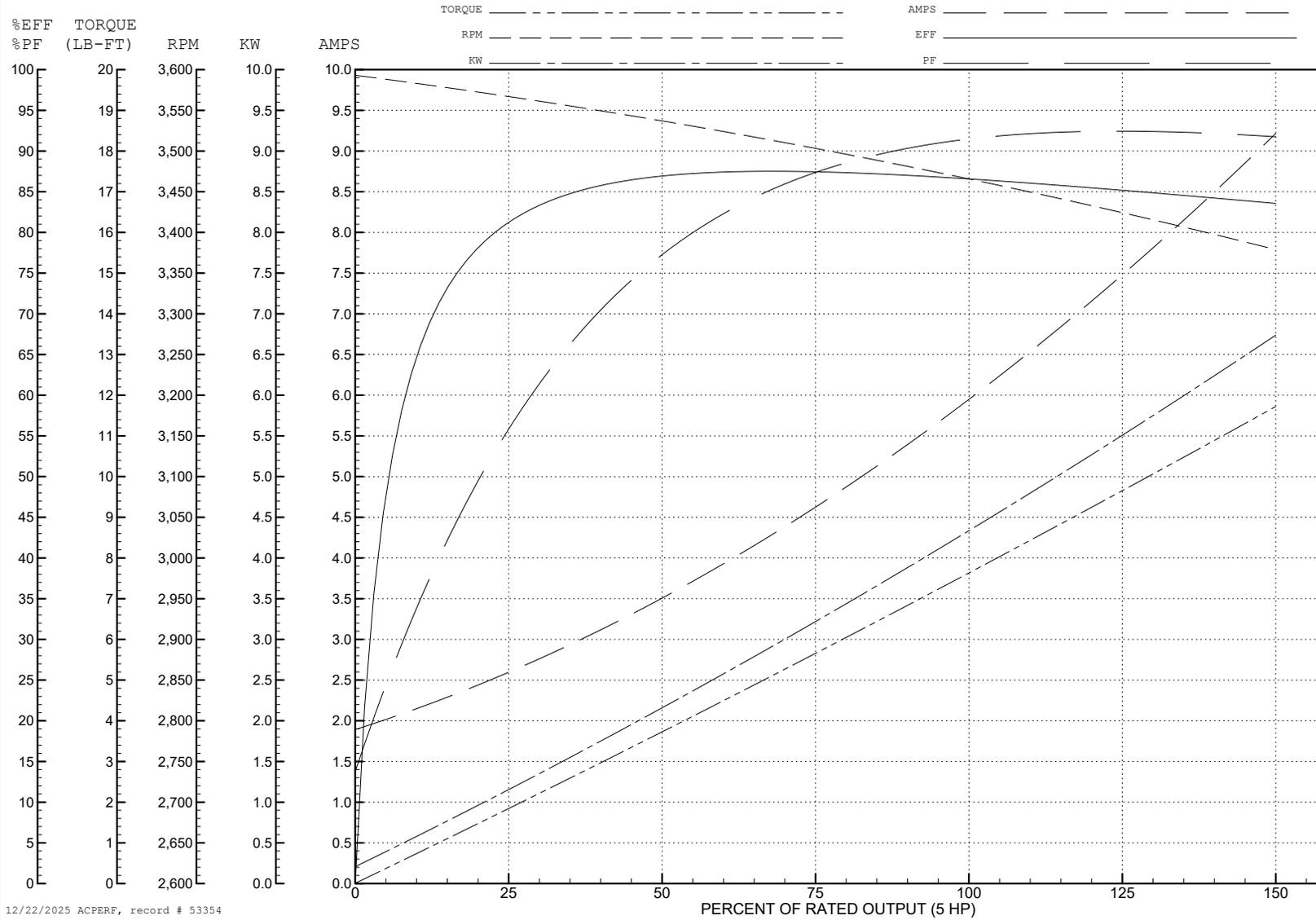
ABB Motors and Mechanical Inc.

WINDING # 36WGS040

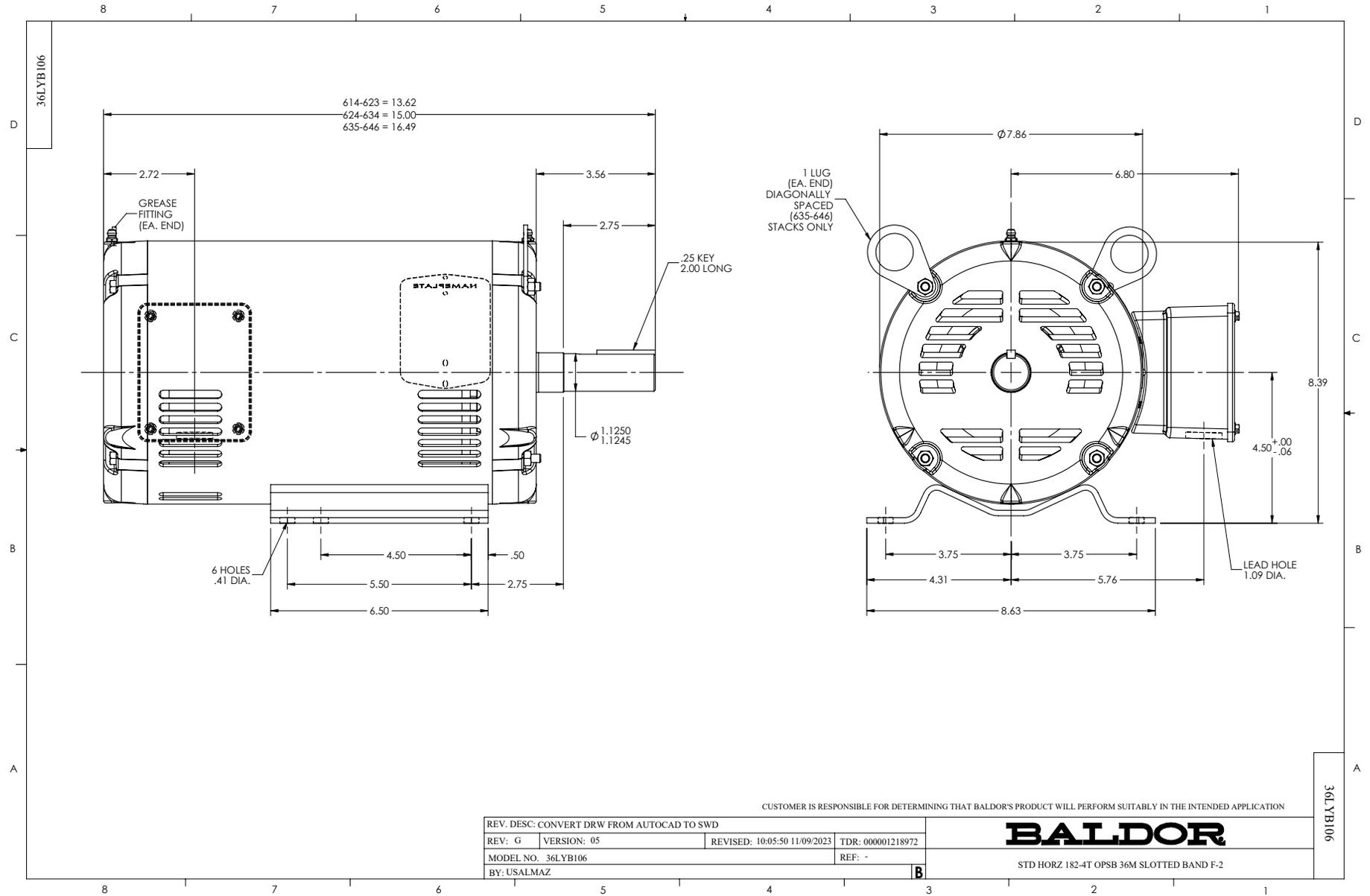
5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

Typical performance - not guaranteed values.

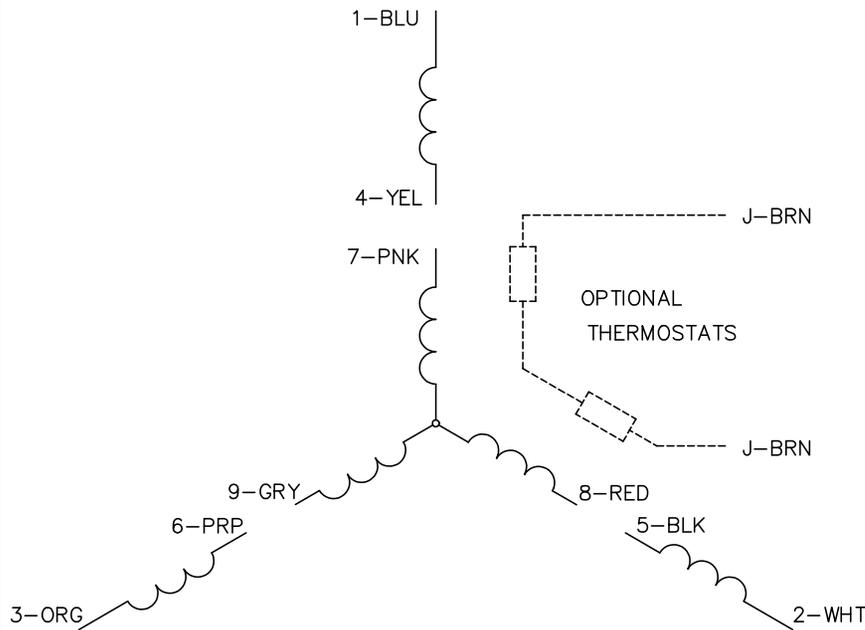
TORQUES (LB-FT): PO=29.99 PU=17.89 LR=22.24 LRA=49.63



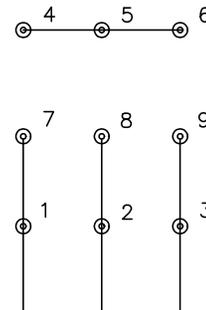
12/22/2025 ACPERF, record # 53354



CD0005

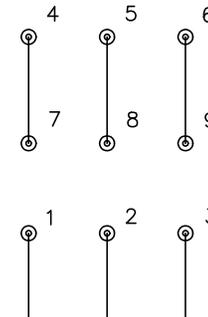


LOW VOLTAGE  
(2Y)



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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS