

BALDOR® • RELIANCE™

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
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
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	6.000 A @ 460.0 V 12.800 A @ 208.0 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
Front Face Code	Standard

Part detail

Revision	P
Type	AC
Mech. spec.	36B106
Base	
Status	PRD/A
Elec. spec.	36WGS040
Layout	36LYB106
Eff. date	06-24-2020
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-22-2013

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
Thermal Device - Winding	None

Vibration Sensor Indicator**No Vibration Sensor****Winding Thermal 1****None****Winding Thermal 2****None**

Nameplate

NP3553L									
CAT.NO.	EFM3212T								
SPEC	36B106S040G1								
HP	5								
VOLTS	230/460								
AMPS	12/6								
RPM	3450								
FRAME	182T		HZ	60		PH	3		
SF	1.15	CODE	K	DES	A	CLASS	F		
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)									

AC Induction Motor Performance Data

Record # 53354

Typical performance - not guaranteed values

Winding: 36WGS040-R014		Type: 3622M	Enclosure: OPSB	
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	Locked-rotor Torque	22.24 LB-FT	
NEMA Design Code	A KVA Code	Starting Current	49.63 A	
Service Factor (S.F.)	1.15	No-load Current	1.99 A	
NEMA Nom. Eff.	86.5 Power Factor	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

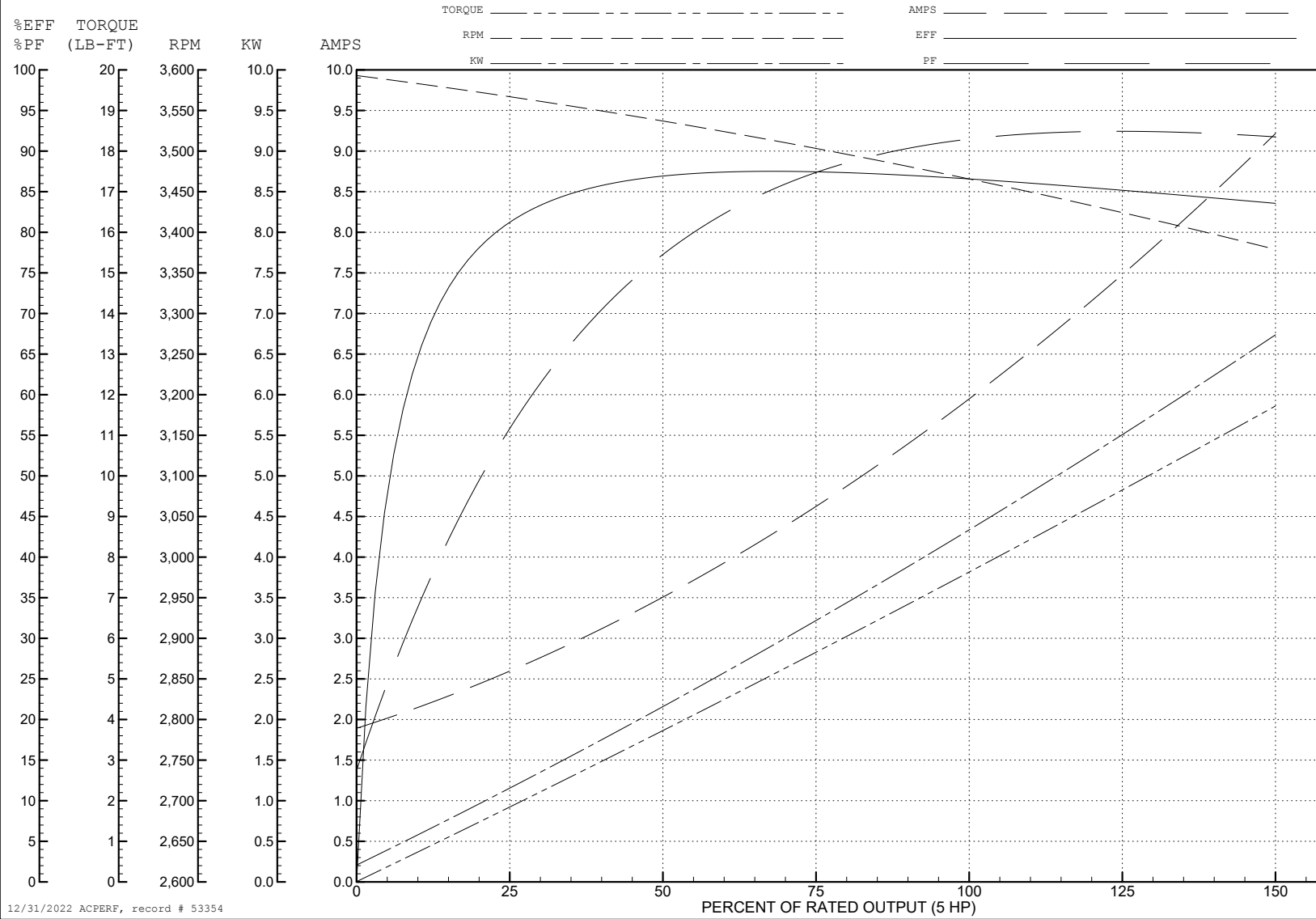
ABB Motors and Mechanical Inc.

WINDING # 36WGS040

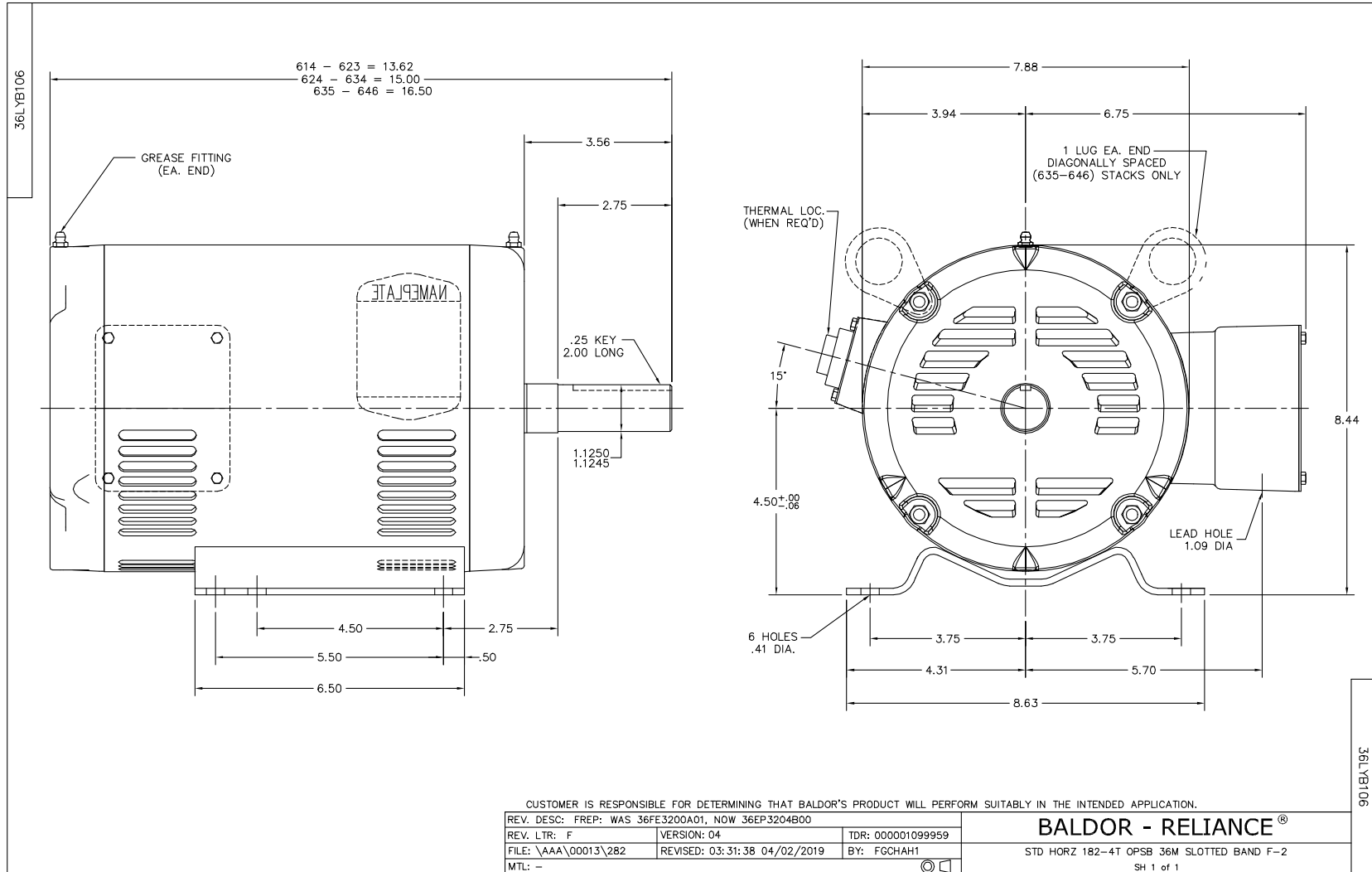
5 HP 3 PH 60 HZ 3450 RPM 460 V 3622M

Typical performance - not guaranteed values.

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



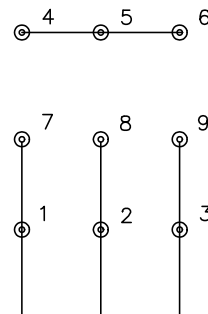
12/31/2022 ACPERF, record # 53354



CD0005

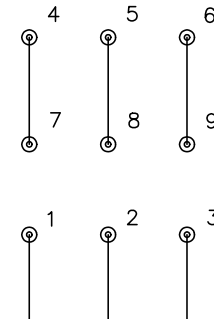


LOW VOLTAGE
(2Y)



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