ABB BALDOR RELIANCE

Customer information packet

EFM3313T-8

10HP, 1770RPM, 3PH, 60HZ, 213T, 3740M, OPSB, F2
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	215T
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	30.300 A @ 208.0 V 29.500 A @ 200.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	29.5 a

Part Detail

Revision	U
Type	AC
Mech. spec.	37B106
Base	
Status	PRD/A
Elec. spec.	37WGT937
Layout	37LYB106
Eff. date	06-11-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	03-15-2006

Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	17.45 IN
Power Factor	80
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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.	EFM3313T-8								
SPEC	37B106T937E7								
HP	10								
VOLTS	200								
AMPS	29.5								
RPM	1770								
FRAME	215T	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	J	**DES**	A	**CLASS**	F		
NEMA NOM. EFF	91.7	**PF**	80						
RATING	40C AMB-CONT								
CC	010A								
ENCL	OPSB	**SER**							
DE	6307	**ODE**	6206						
VPWM INVERTER READY									
CT30-60(2:1) VT3-60(20:1)									

Accessories

Part number	Description	Multiplier
37-1404	C FACE KIT	A8

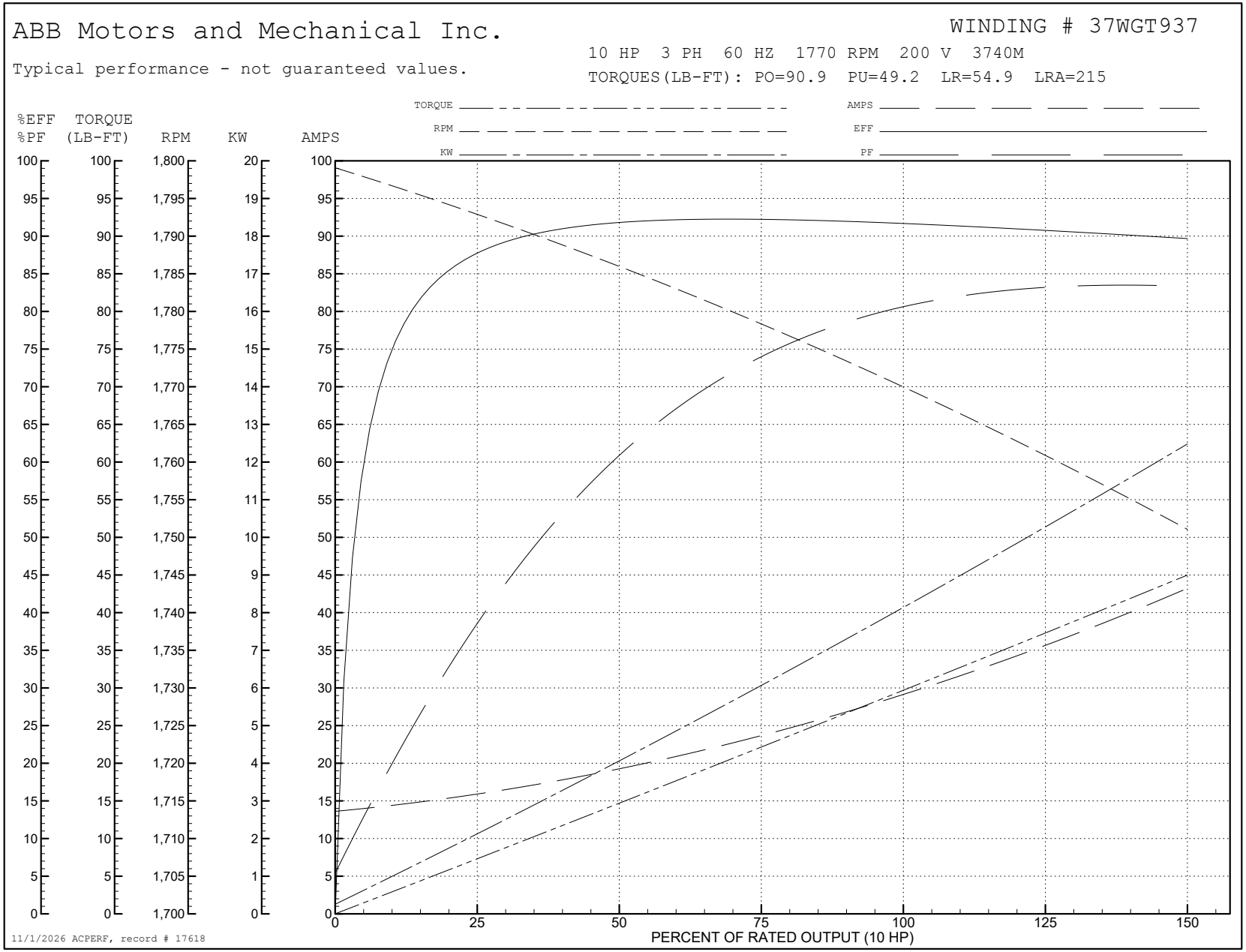
AC Induction Motor Performance Data
Record # 17618
Typical performance - not guaranteed values

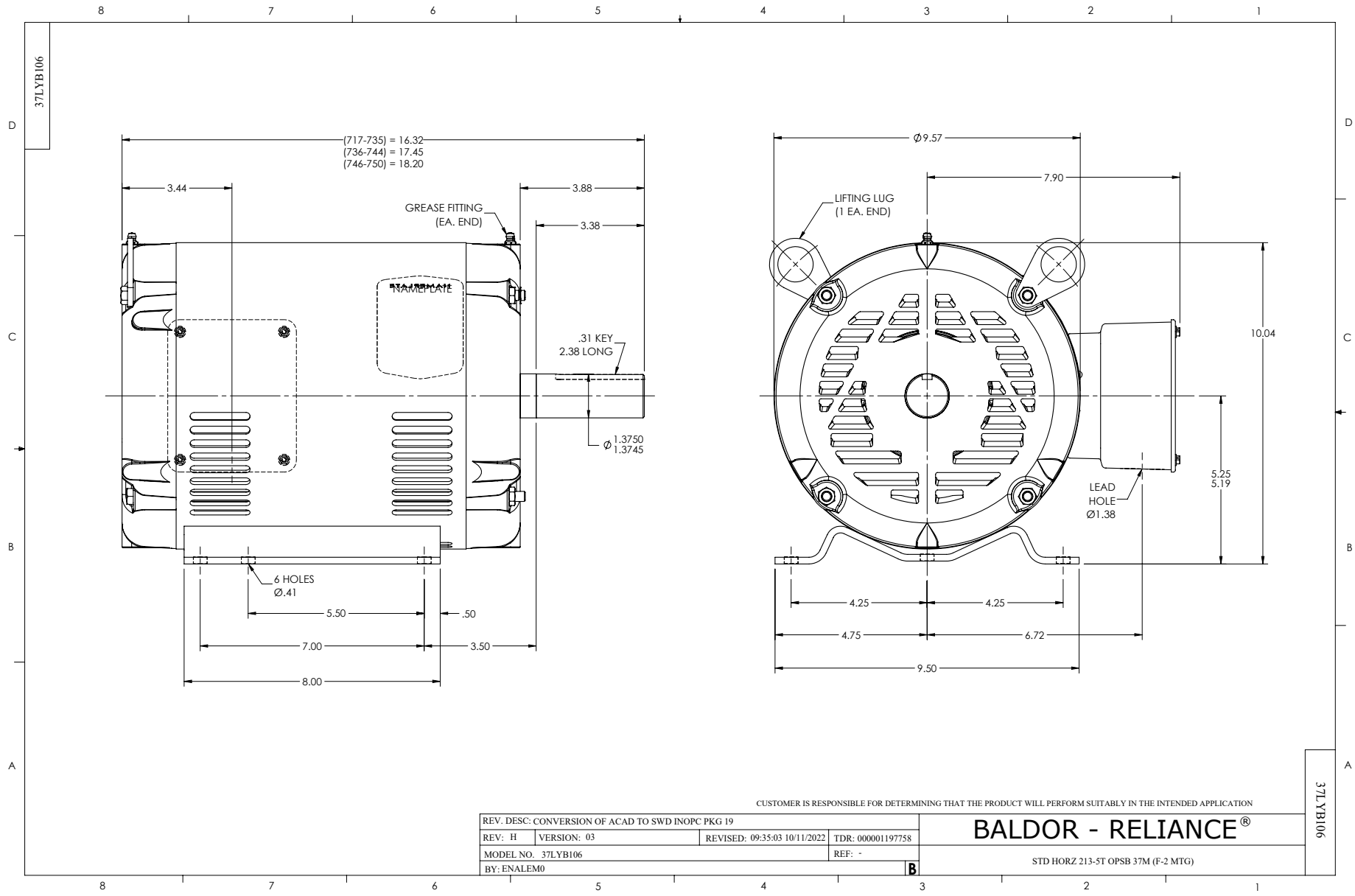
Winding: 37WGT937-R001	**Type:** 3740M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.7 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			29.5	**Breakdown Torque**	90.9 LB-FT
R.P.M.			1770	**Pull-up Torque**	49.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	54.9 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	215 A
Service Factor (S.F.)			1.15	**No-load Current**	14 A
NEMA Nom. Eff.	91.7	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.19 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	38
				Rotor inertia	0.984 lb-ft²

Load Characteristics 200 V, 60 Hz, 10 HP

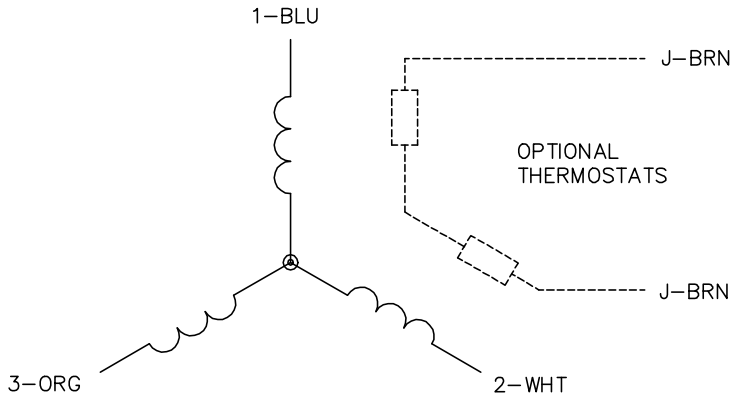
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	62	74	80	83	84	82
Efficiency	87	91.6	92.2	91.8	90.8	89.6	91.2
Speed	1793	1786	1778	1770	1761	1751	1765
Line amperes	15.4	19.1	23.8	29.5	35.8	43	33.3

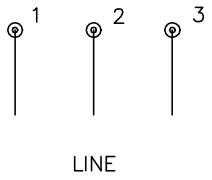

ABB Motors and Mechanical Inc.
WINDING # 37WGT937
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1770 RPM 200 V 3740M
TORQUES(LB-FT): PO=90.9 PU=49.2 LR=54.9 LRA=215
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/1/2026 ACPERF, record # 17618


37LYB106
(717-735) = 16.32
(736-744) = 17.45
(746-750) = 18.20
3.44
3.88
3.38
GREASE FITTING
(EA. END)
NAMEPLATE
.31 KEY
2.38 LONG
Ø1.3750
1.3745
6 HOLES
Ø.41
5.50
.50
7.00
3.50
8.00
Ø9.57
7.90
LIFTING LUG
(1 EA. END)
10.04
5.25
5.19
LEAD
HOLE
Ø1.38
4.25
4.25
4.75
6.72
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: H
VERSION: 03
REVISED: 09:35:03 10/11/2022
TDR: 000001197758
MODEL NO. 37LYB106
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T OPSB 37M (F-2 MTG)
37LYB106

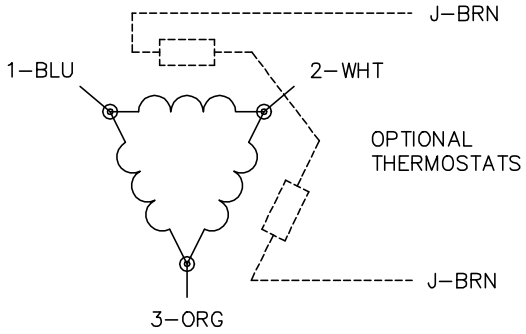
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1