ABB BALDOR RELIANCE

Customer information packet

EFM3313T

10HP, 1770RPM, 3PH, 60HZ, 215T, 3742M, 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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	25.000 A @ 230.0 V
	26.000 A @ 208.0 V
	12.500 A @ 460.0 V
Design Code	B
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

Part Detail

Revision	V
Type	AC
Mech. spec.	37B106
Base	
Status	PRD/A
Elec. spec.	37WGT853
Layout	37LYB106
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	12.5 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3742M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	17.45 IN
Power Factor	82
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										
SPEC	37B106T853E7										
HP	10										
VOLTS	230/460										
AMPS	25/12.5										
RPM	1770										
FRAME	215T		**HZ**	60			**PH**	3			
SF	1.15	**CODE**	H	**DES**	B	**CLASS**	F				
NEMA NOM. EFF	91.7	**PF**	82								
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

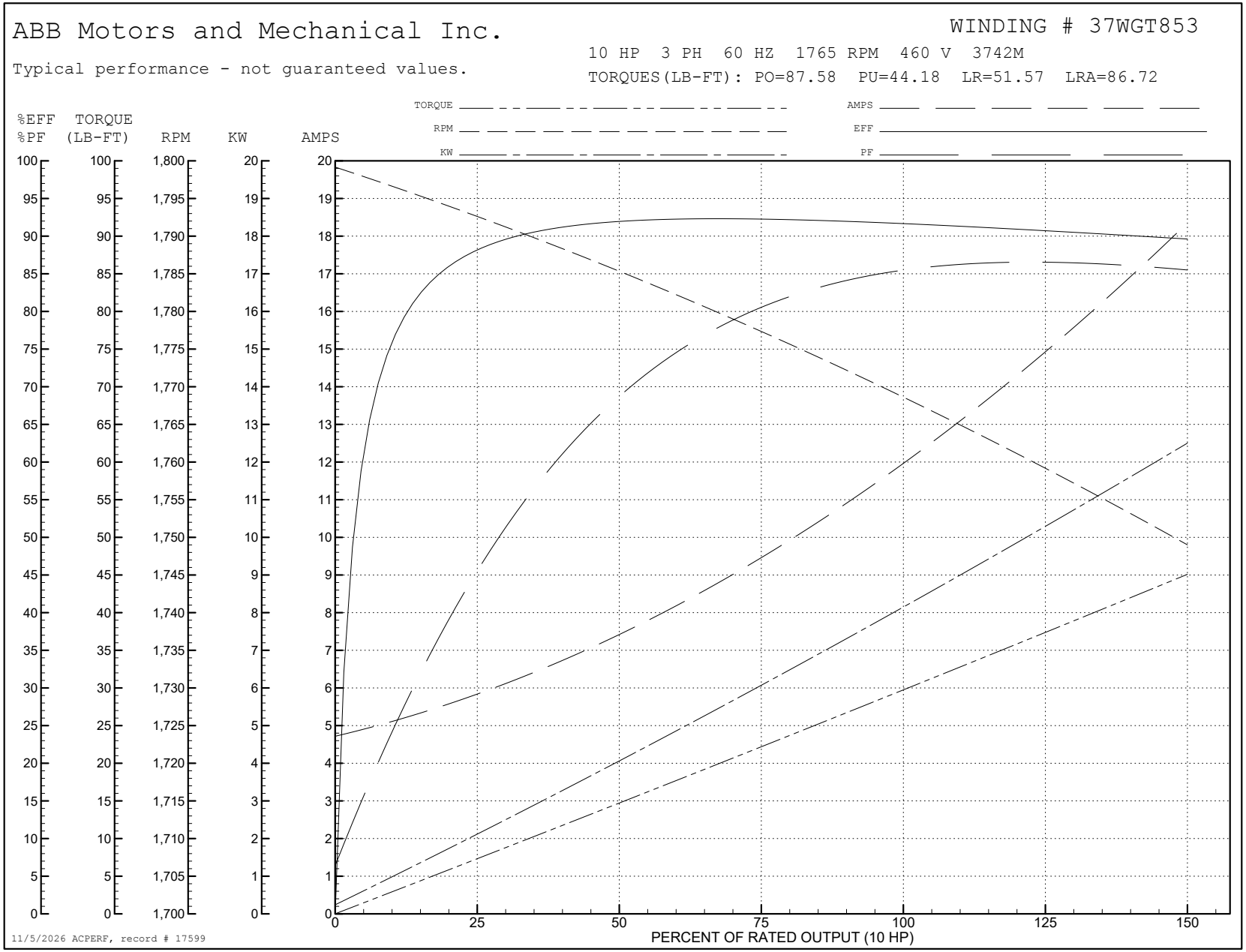
AC Induction Motor Performance Data
Record # 17599
Typical performance - not guaranteed values

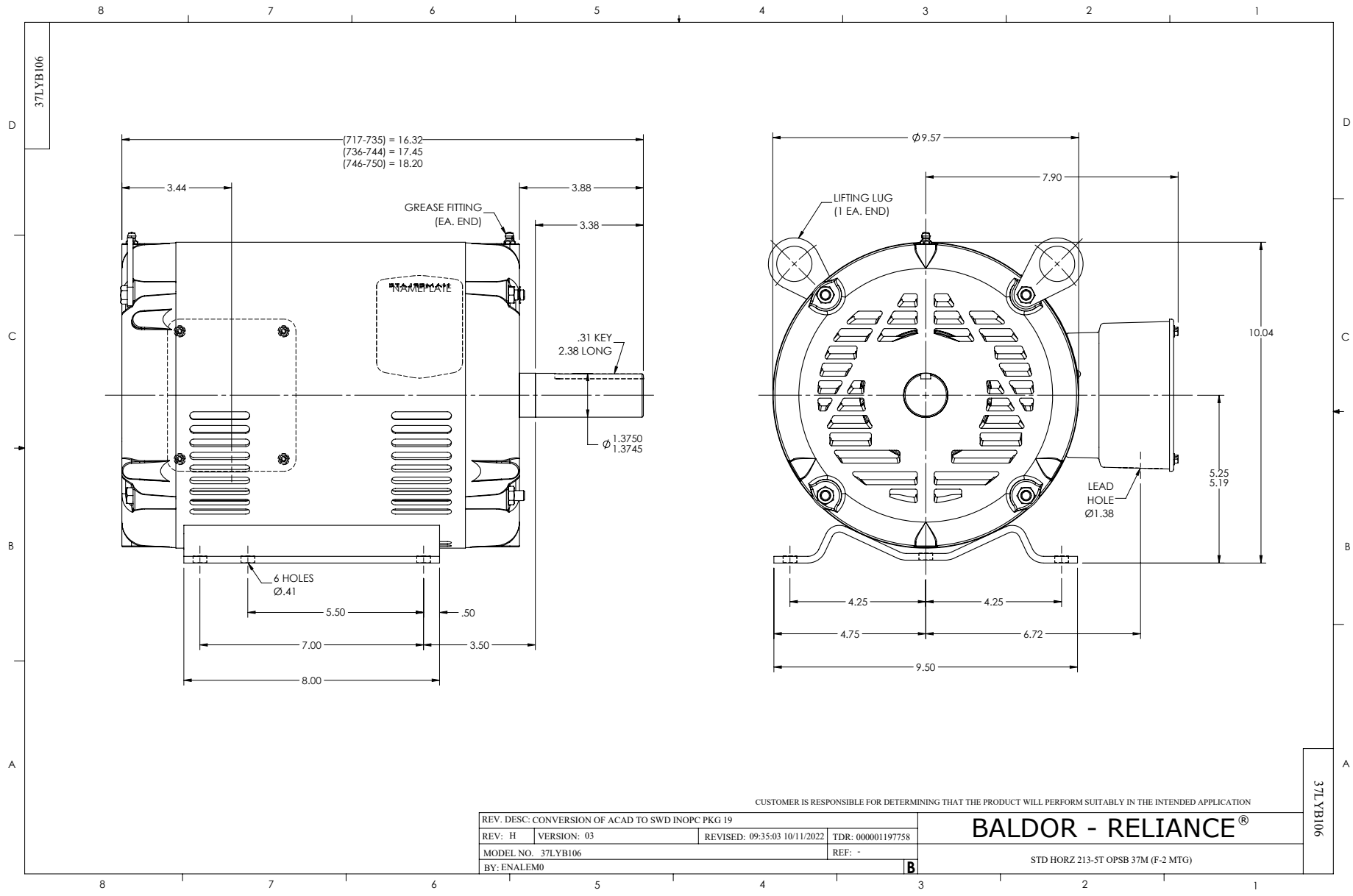
Winding: 37WGT853-R001	**Type:** 3742M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	29.7 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			25/12.5	**Breakdown Torque**	87.58 LB-FT
R.P.M.			1765	**Pull-up Torque**	44.18 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	51.57 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	86.72 A
Service Factor (S.F.)			1.15	**No-load Current**	4.91 A
NEMA Nom. Eff.	91.7	**Power Factor**	82	**Line-line Res. @ 25ºC**	1.18 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	34°C
S.F. Amps				**Temp. Rise @ S.F. Load**	43°C
				Locked-rotor Power Factor	37.9
				Rotor inertia	1.03 LB-FT2

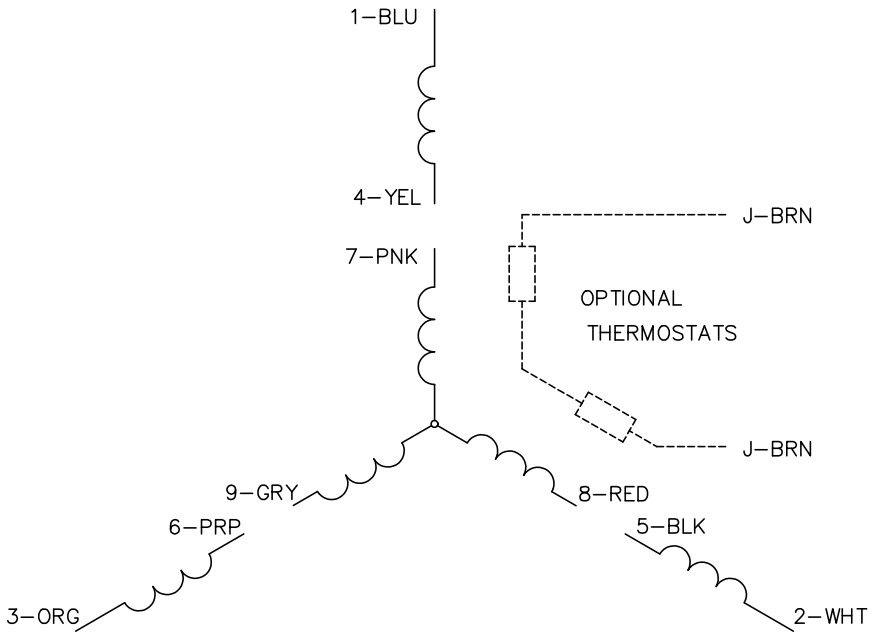
Load Characteristics 460 V, 60 Hz, 10 HP

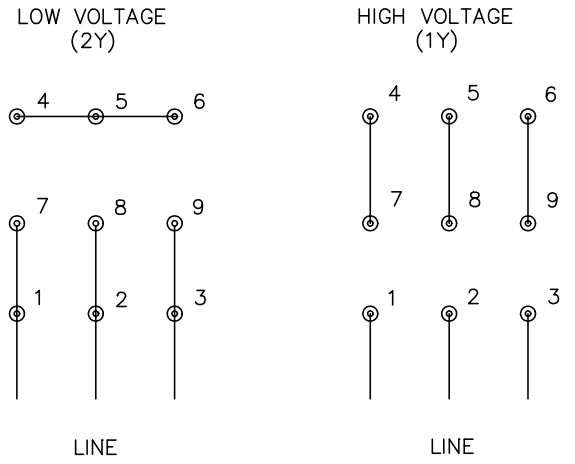
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	70	80	84	86	86	83
Efficiency	87.7	91.8	92.2	91.7	90.8	89.5	91.4
Speed	1793	1785	1777	1769	1759	1749	1763
Line amperes	5.6	7.31	9.53	12.15	15	18.24	14.2


ABB Motors and Mechanical Inc.
WINDING # 37WGT853
10 HP 3 PH 60 HZ 1765 RPM 460 V 3742M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=87.58 PU=44.18 LR=51.57 LRA=86.72
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/5/2026 ACPERF, record # 17599


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

CD0005





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			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS