

ABB BALDOR RELIANCE III

Customer information packet

EM3313T-5BG

10HP, 1770RPM, 3PH, 60HZ, 215T, 3740M, OPSB, F1

Class - None

Division - Not Applicable

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	575.0 V @ 60 HZ
Agency Approvals	UR CSA CSA EEV
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	10.000 A @ 575.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	10.0 a
Insulation Class	H

Part Detail

Revision	M
Type	AC
Mech. spec.	37N346
Base	
Status	PRD/A
Elec. spec.	37WGT932
Layout	37LYN346
Eff. date	05-14-2024
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	09-22-2014

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
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
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	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

NP1259L											
CAT.NO.	EM3313T-5BG										
SPEC.	37N346T932G1										
HP	10										
VOLTS	575										
AMP	10										
RPM	1770										
FRAME	215T		HZ	60				PH	3		
SER.F.	1.15	CODE	H	DES	B	CL	H				
NEMA-NOM-EFF	91.7	PF	82								
RATING	40C AMB-CONT										
CC	010A										
DE	6307		ODE	6206							
ENCL	OPSB	SN									

AC Induction Motor Performance Data

Record # 50487

Typical performance - not guaranteed values

Winding: 37WGT932-R005				Type: 3740M		Enclosure: OPSB	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		10		Full Load Torque		29.68 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		10		Breakdown Torque		87.58 LB-FT	
R.P.M.		1770		Pull-up Torque		46.92 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		52.43 LB-FT	
NEMA Design Code		B		KVA Code		H	
Starting Current		71.77 A		No-load Current		4.43 A	
Service Factor (S.F.)		1.15		Line-line Res. @ 25°C		1.71 Ω	
NEMA Nom. Eff.		91.7		Power Factor		82	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C	
S.F. Amps				Temp. Rise @ S.F. Load		41°C	
				Locked-rotor Power Factor		37.7	
				Rotor inertia		0.984 LB-FT2	

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	66	77	82	85	85	84
Efficiency	87	91.7	92.2	91.7	90.9	89.8	91.2
Speed	1793	1785	1777	1770	1760	1750	1763
Line amperes	4.94	6.26	7.96	10	12.18	14.77	11.3

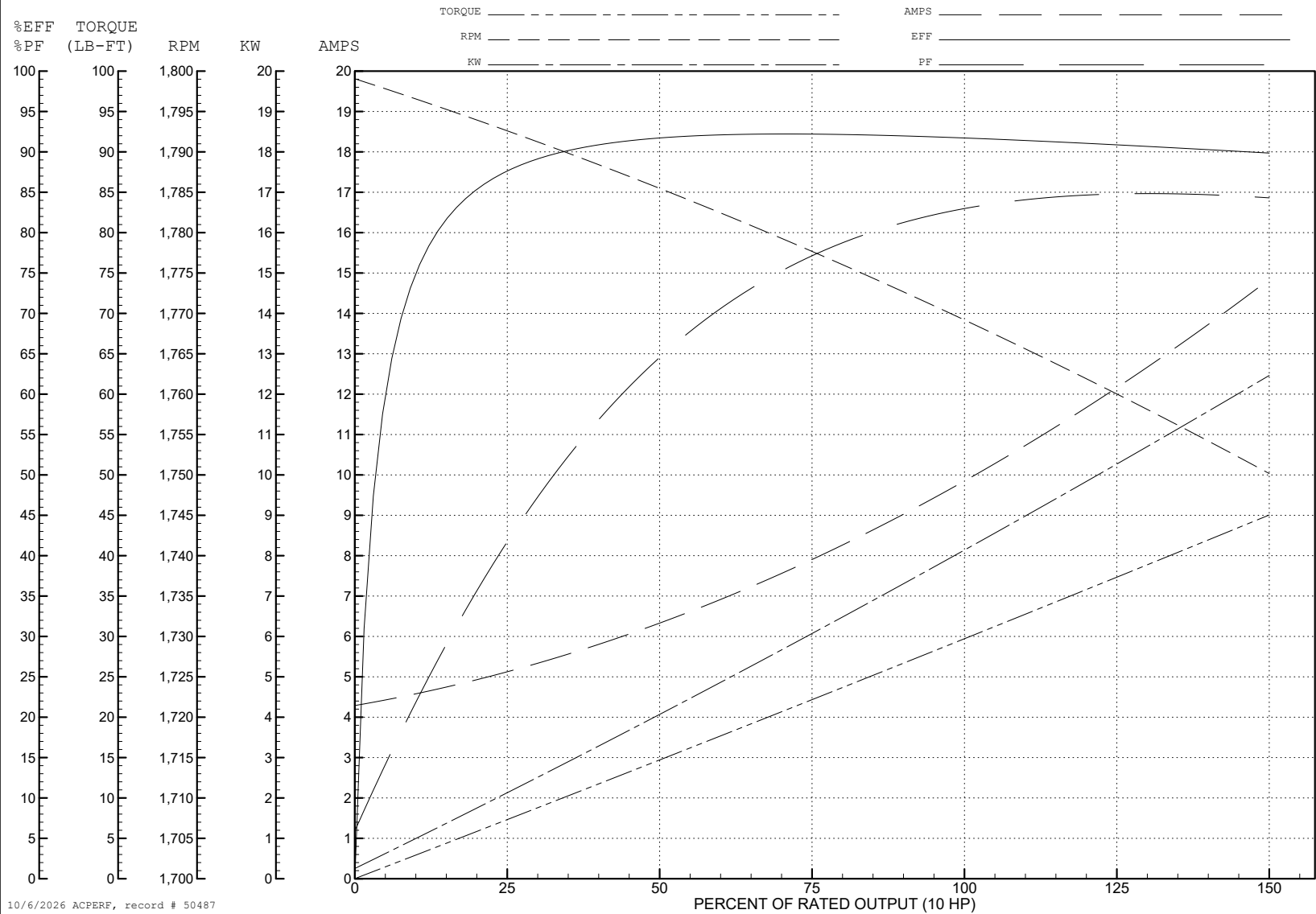
ABB Motors and Mechanical Inc.

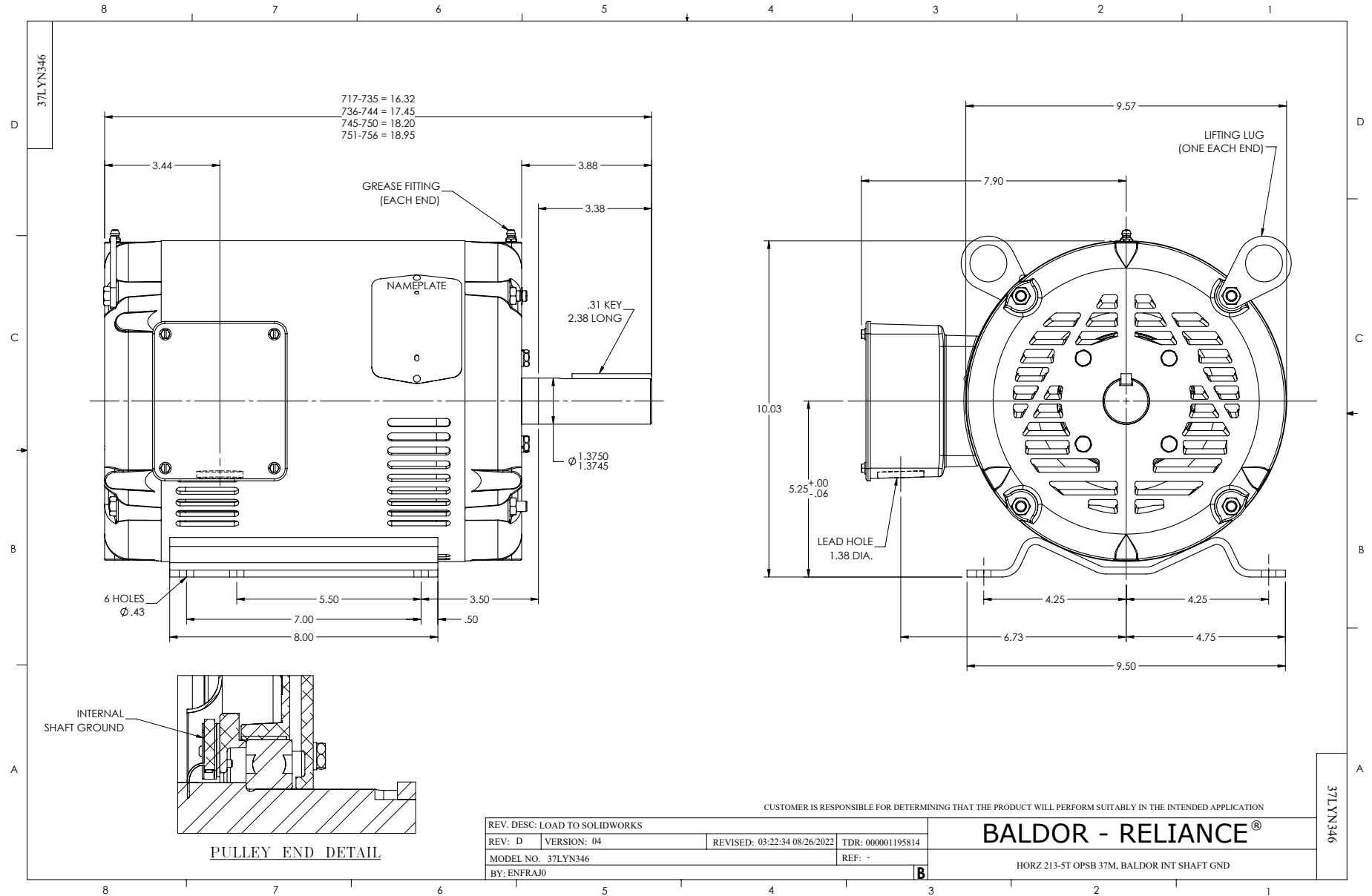
WINDING # 37WGT932

Typical performance - not guaranteed values.

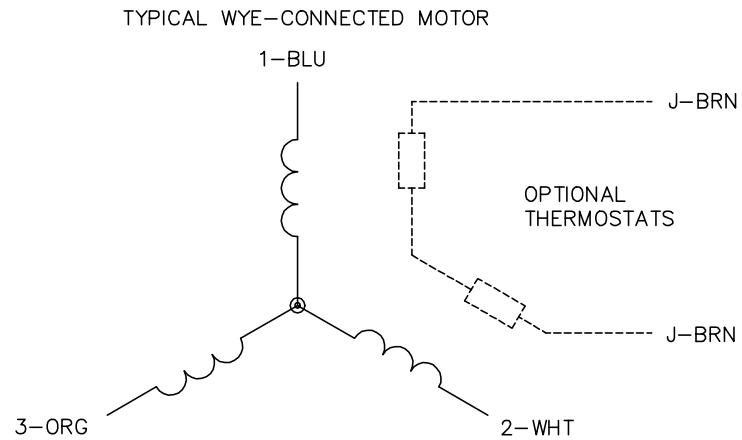
10 HP 3 PH 60 HZ 1770 RPM 575 V 3740M

TORQUES (LB-FT) : PO=87.58 PU=46.92 LR=52.43 LRA=71.77





CD0006


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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

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