ABB BALDOR RELIANCE

Customer information packet

EM3314T-8

15HP, 3475RPM, 3PH, 60HZ, 215T, 3734M, OPSB, F1
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV 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	39.700 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
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	39.7 a
Insulation Class	F

Part Detail

Revision	N
Type	AC
Mech. spec.	37B101
Base	
Status	PRD/A
Elec. spec.	37WGR876
Layout	37LYB101
Eff. date	11-08-2024
CD Diagram	CD0006
Poles	02
Leads	3#8
Proprietary	False
Created date	08-05-2015

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3734M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.32 IN
Power Factor	90
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3475 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.	EM3314T-8										
SPEC	37B101R876G1										
HP	15										
VOLTS	200										
AMPS	39.7										
RPM	3475										
FRAME	215T		**HZ**	60			**PH**	3			
SF	1.15	**CODE**	G	**DES**	B	**CLASS**	F				
NEMA NOM. EFF	90.2	**PF**	90								
RATING	40C AMB-CONT										
CC	010A										
ENCL	OPSB	**SER**									
DE	6307		**ODE**	6206							
VPWM INVERTER READY											
CT30-60(2:1) VT3-60(20:1)											

AC Induction Motor Performance Data
Record # 52225
Typical performance - not guaranteed values

Winding: 37WGR876-R001	**Type:** 3734M	**Enclosure:** OPSB

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			15	**Full Load Torque**	22.6 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			39.7	**Breakdown Torque**	91.5 LB-FT
R.P.M.			3475	**Pull-up Torque**	28.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	37.3 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	250 A
Service Factor (S.F.)			1.15	**No-load Current**	12.4 A
NEMA Nom. Eff.	90.2	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.128 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps				**Temp. Rise @ S.F. Load**	58°C
				Locked-rotor Power Factor	32.8
				Rotor inertia	0.31 LB-FT2

Load Characteristics 200 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	59	79	87	90	89	88	89
Efficiency	90.5	92.6	92.1	91	89.3	87.1	90
Speed	3572	3545	3515	3479	3441	3398	3456
Line amperes	15.2	21.9	30.2	39.6	50.5	62.7	46.1

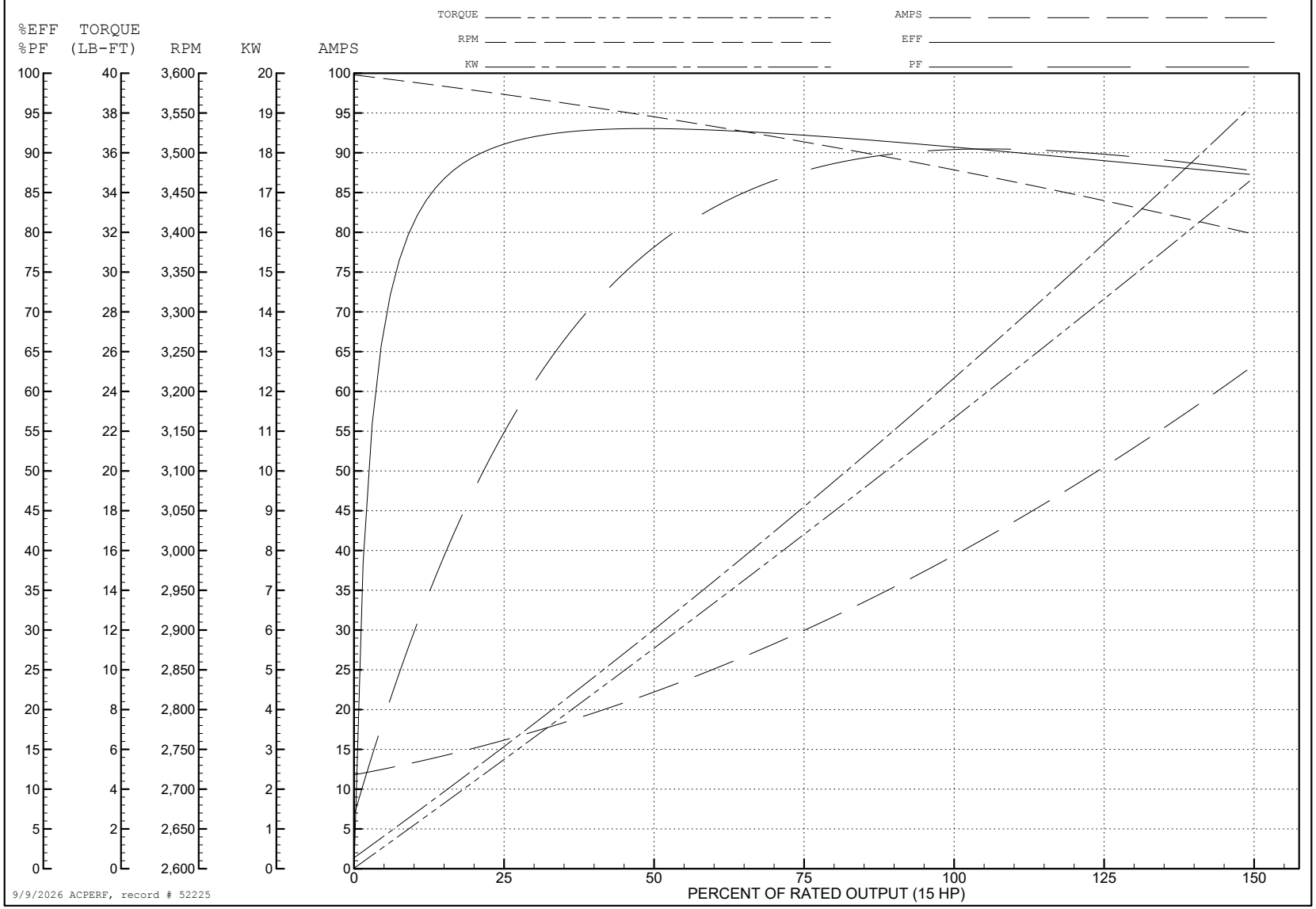
ABB Motors and Mechanical Inc.

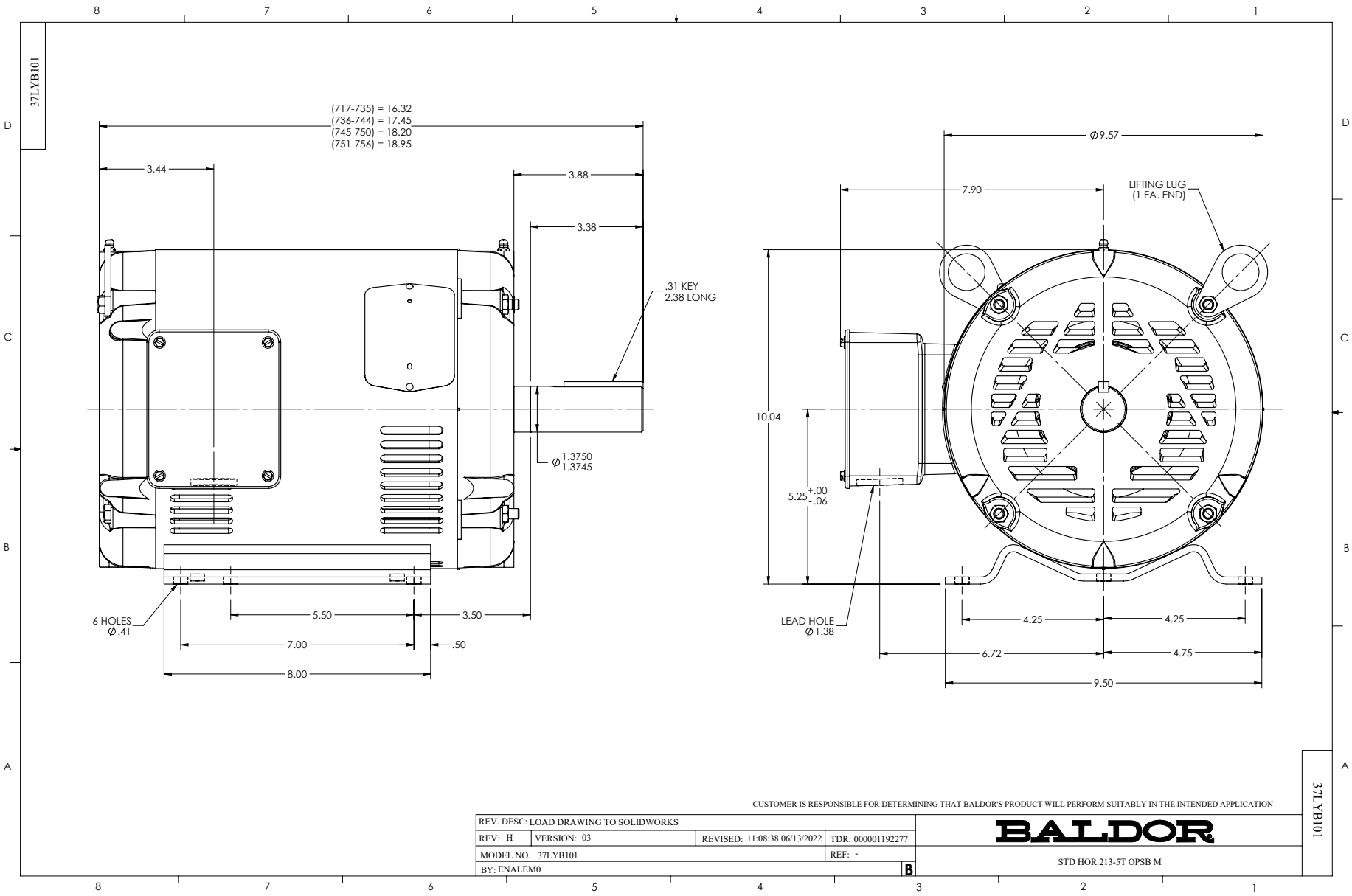
WINDING # 37WGR876

15 HP 3 PH 60 HZ 3475 RPM 200 V 3734M

Typical performance - not guaranteed values.

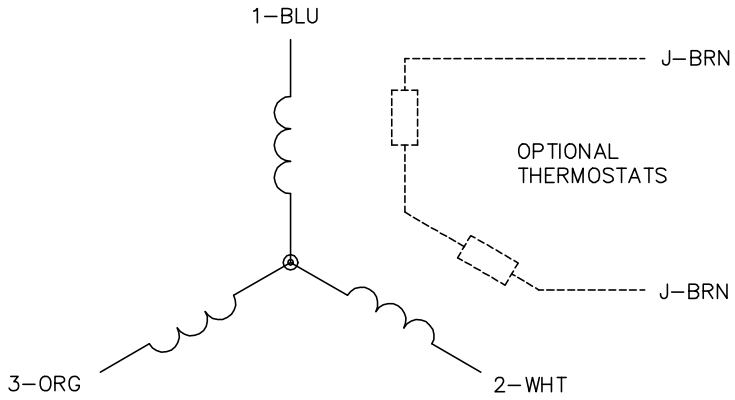
TORQUES(LB-FT): PO=91.5 PU=28.3 LR=37.3 LRA=250

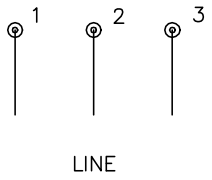



37LYB101
(717-735) = 16.32
(736-744) = 17.45
(745-750) = 18.20
(751-756) = 18.95
3.44
3.88
3.38
.31 KEY
2.38 LONG
Ø1.3750
1.3745
6 HOLES
Ø.41
5.50
3.50
7.00
.50
8.00
Ø9.57
7.90
LIFTING LUG
(1 EA. END)
10.04
5.25 +.00 -.06
LEAD HOLE
Ø1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: H
VERSION: 03
REVISED: 11:08:38 06/13/2022
TDR: 000001192277
MODEL NO. 37LYB101
REF: -
BY: ENALEM0
B
BALDOR
STD HOR 213-5T OPSB M
37LYB101

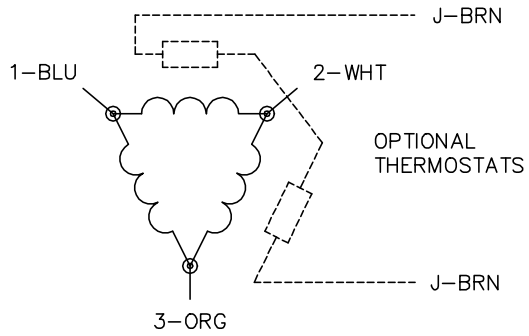
CD0006

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