ABB BALDOR RELIANCE

Customer information packet

EM3303T

2HP, 865RPM, 3PH, 60HZ, 213T, 3744M, OPSB, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	213T
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUS
	C UR US
	CURUSEEV
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	3.500 A @ 460.0 V
	7.000 A @ 230.0 V
	7.200 A @ 208.0 V
Design Code	B
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	K
Type	AC
Mech. spec.	37B101
Base	
Status	PRD/A
Elec. spec.	37WGR734
Layout	37LYB101
Eff. date	11-08-2024
CD Diagram	CD0005
Poles	08
Leads	9#14
Proprietary	False
Created date	04-30-2015

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
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	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	17.45 IN
Power Factor	61
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	865 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

NP2116L									
CAT.NO.	EM3303T								
SPEC.	37B101R734G1								
HP	2								
VOLTS	208-230/460								
AMP	7.2-7/3.5								
RPM	865								
FRAME	213T		**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	61						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	OPSB	**SN**							

AC Induction Motor Performance Data
Record # 61392
Typical performance - not guaranteed values

Winding: 37WGR734-R004	**Type:** 3744M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	12.2 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			7.2-7/3.5	**Breakdown Torque**	36.2 LB-FT
R.P.M.			865	**Pull-up Torque**	20.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.2 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	18.7 A
Service Factor (S.F.)			1.15	**No-load Current**	2.25 A
NEMA Nom. Eff.	86.5	**Power Factor**	61	**Line-line Res. @ 25ºC**	4.59 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	22°C
S.F. Amps				**Temp. Rise @ S.F. Load**	25°C
				Locked-rotor Power Factor	32.5
				Rotor inertia	1.09 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	26	42	53	61	65	69	63
Efficiency	77.6	84.9	86.8	87.3	85.9	83.9	86.5
Speed	892	885	877	868	857	846	861
Line amperes	2.37	2.65	3.06	3.57	4.16	4.86	3.92

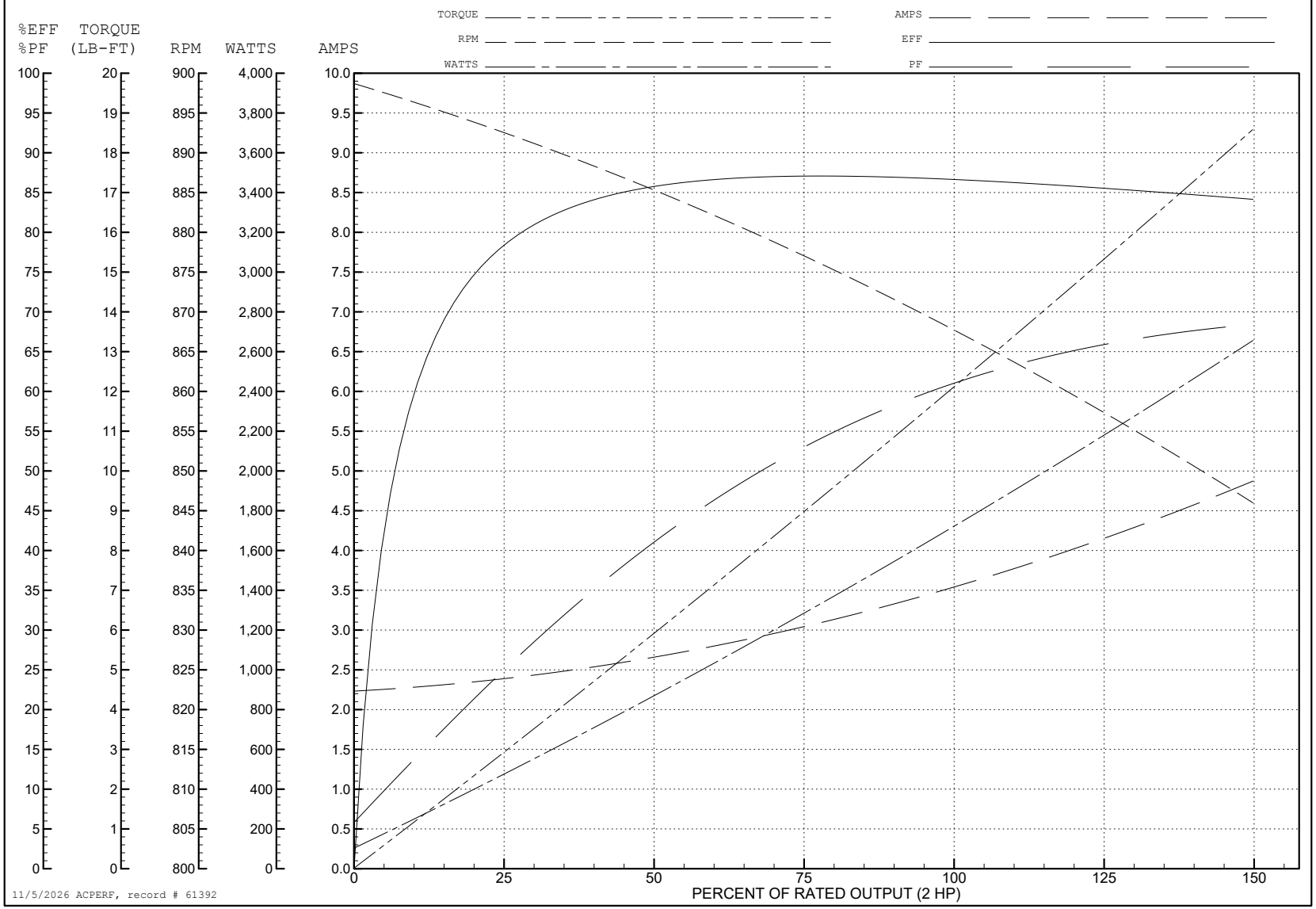
ABB Motors and Mechanical Inc.

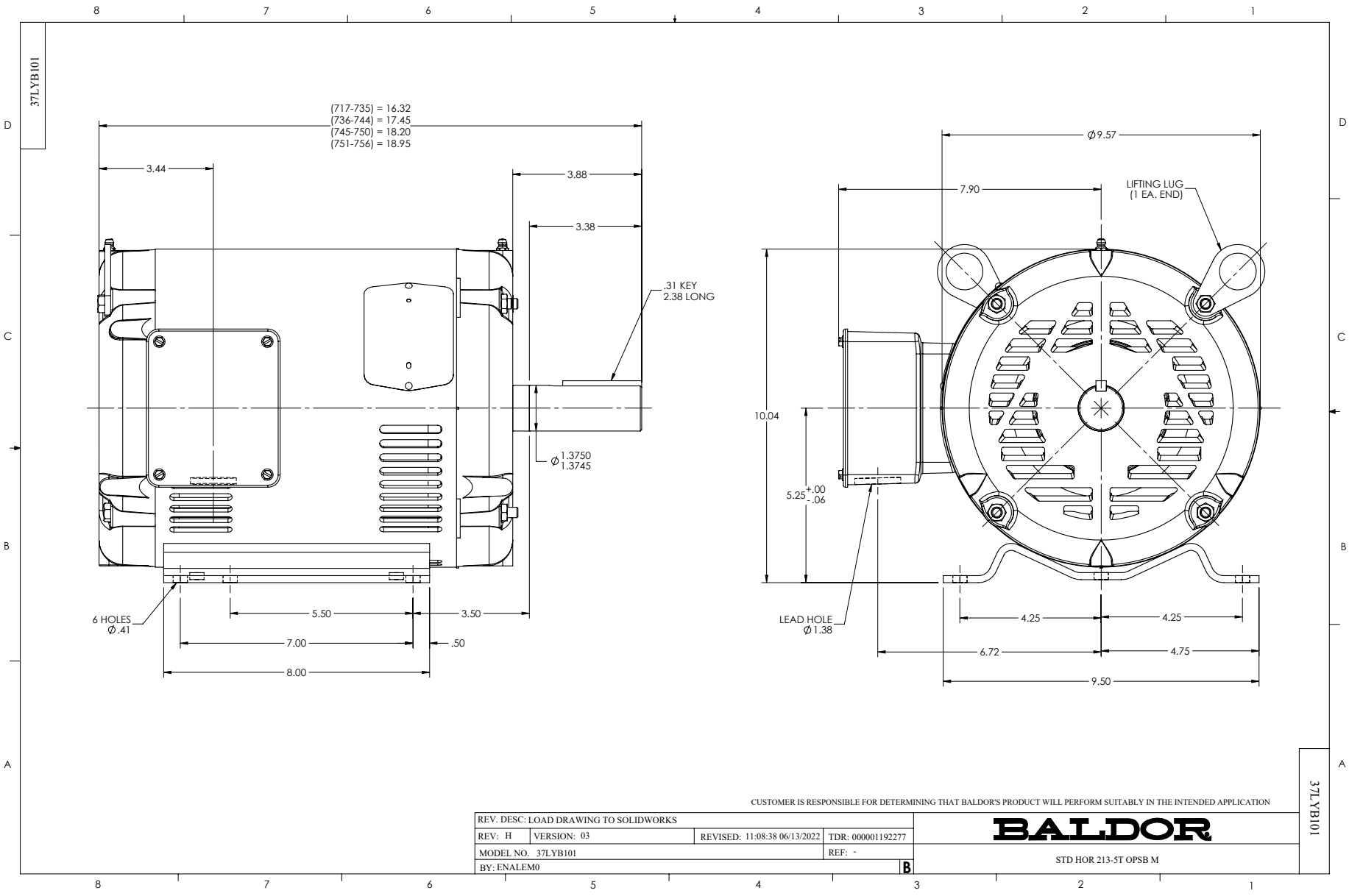
WINDING # 37WGR734

2 HP 3 PH 60 HZ 865 RPM 460 V 3744M

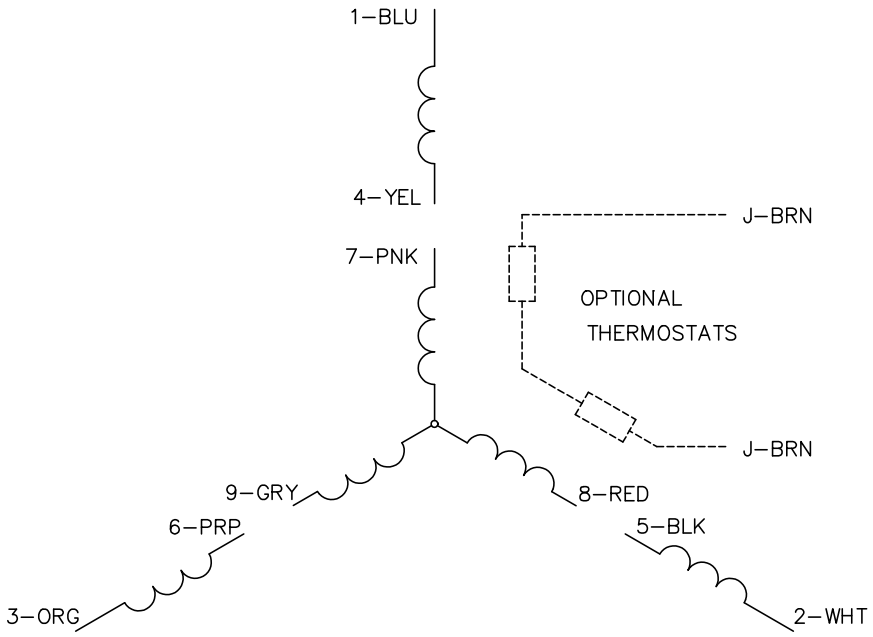
Typical performance - not guaranteed values.

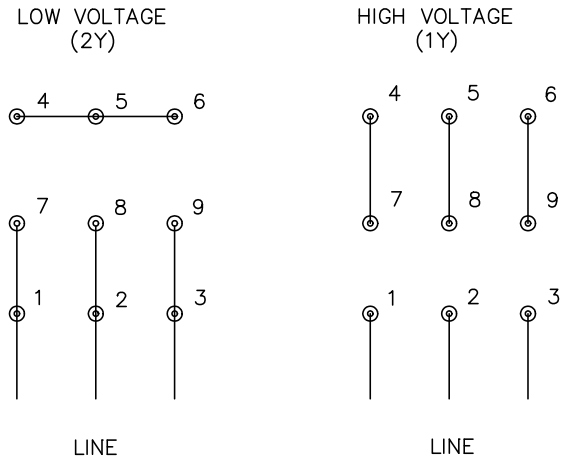
TORQUES(LB-FT): PO=36.2 PU=20.1 LR=22.2 LRA=18.7




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
Ø 1.3750
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
Ø 1.38
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

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