ABB BALDOR RELIANCE

Customer information packet

EM3312T-BG

10HP, 3475RPM, 3PH, 60HZ, 213T, 3728M, OPSB, F1
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	24.000 A @ 230.0 V
	25.600 A @ 208.0 V
	12.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Q
Type	AC
Mech. spec.	37N346
Base	
Status	PRD/A
Elec. spec.	37WGS633
Layout	37LYN346
Eff. date	06-11-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	10-28-2013

Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	H
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	16.32 IN
Power Factor	86
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	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.	EM3312T-BG										
SPEC	37N346S633G1										
HP	10										
VOLTS	230/460										
AMPS	24/12										
RPM	3475										
FRAME	213T		**HZ**	60			**PH**	3			
SF	1.15	**CODE**	G	**DES**	B	**CLASS**	H				
NEMA NOM. EFF	89.5	**PF**	86								
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 # 53395
Typical performance - not guaranteed values

Winding: 37WGS633-R010	**Type:** 3728M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			24/12	**Breakdown Torque**	51.1 LB-FT
R.P.M.			3475	**Pull-up Torque**	25.6 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	30 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	79 A
Service Factor (S.F.)			1.15	**No-load Current**	4.54 A
NEMA Nom. Eff.	89.5	**Power Factor**	86	**Line-line Res. @ 25ºC**	0.98748 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	29°C
S.F. Amps				**Temp. Rise @ S.F. Load**	35°C
				Locked-rotor Power Factor	35
				Rotor inertia	0.255 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	74	82	86	88	88	87
Efficiency	84.2	89.7	90.6	90.2	89.3	87.9	89.7
Speed	3578.4	3552.7	3525.5	3493.1	3458.3	3422.6	3472
Line amperes	5.31	7.03	9.39	12	14.8	18	13.7

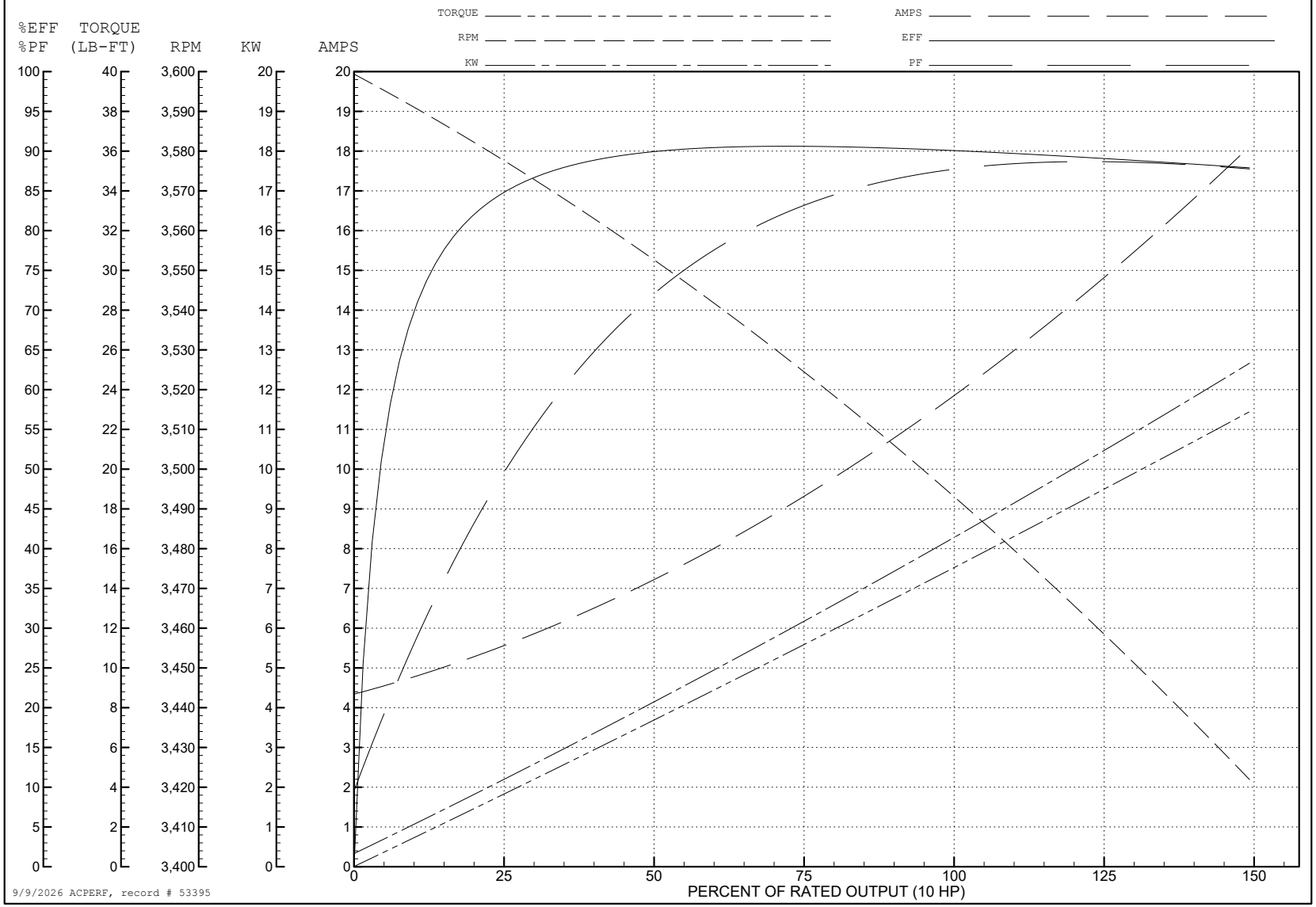
ABB Motors and Mechanical Inc.

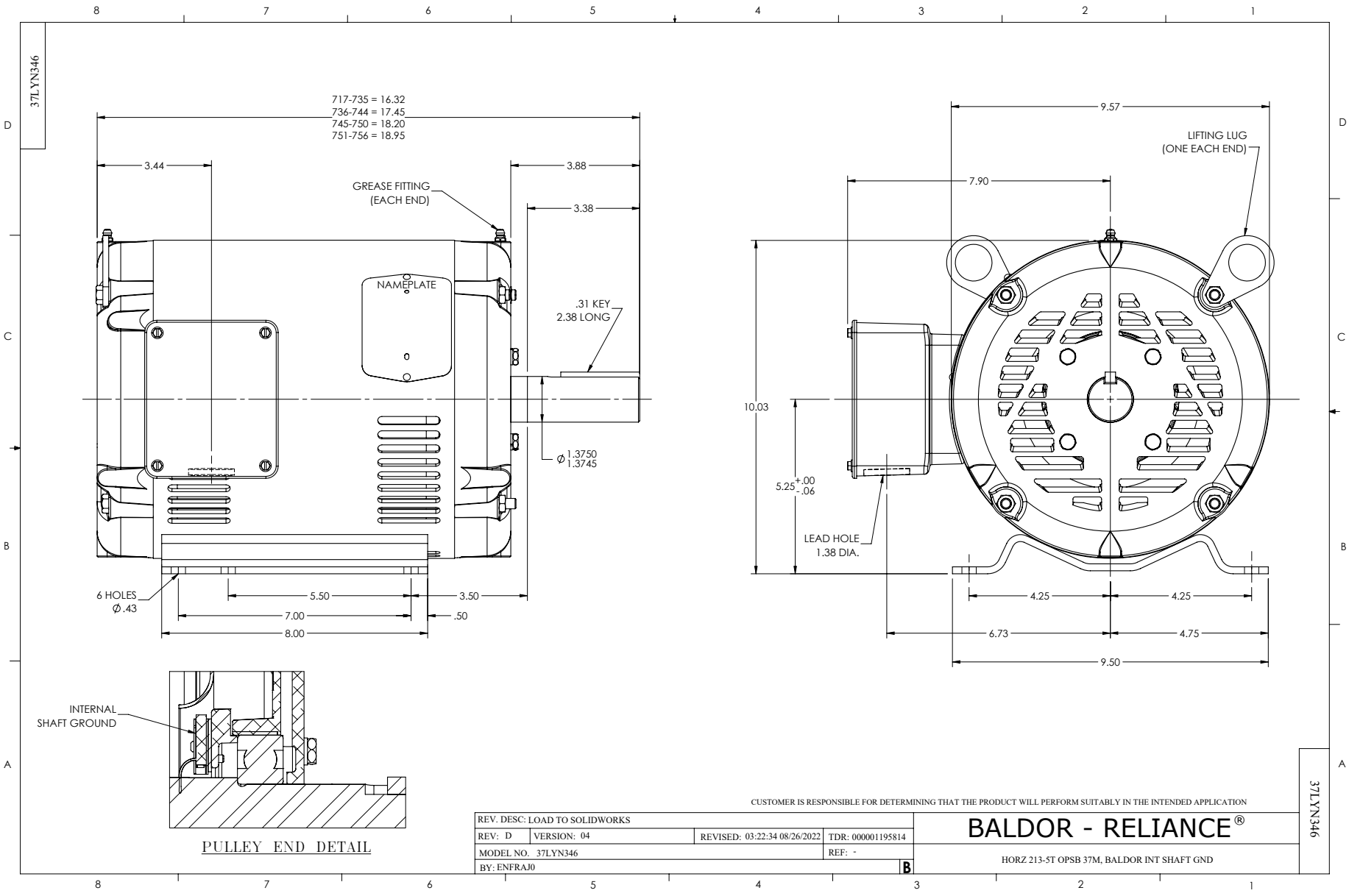
WINDING # 37WGS633

10 HP 3 PH 60 HZ 3475 RPM 460 V 3728M

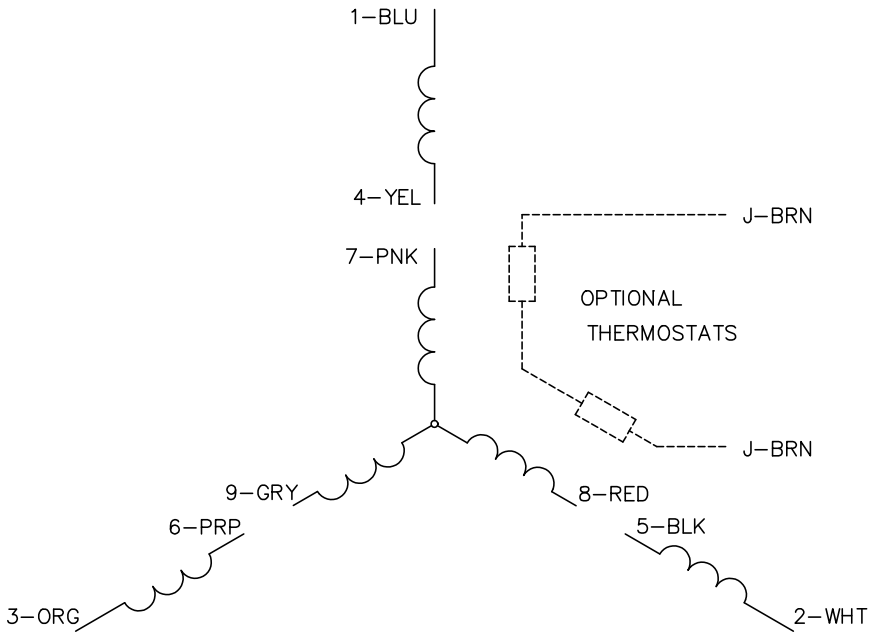
Typical performance - not guaranteed values.

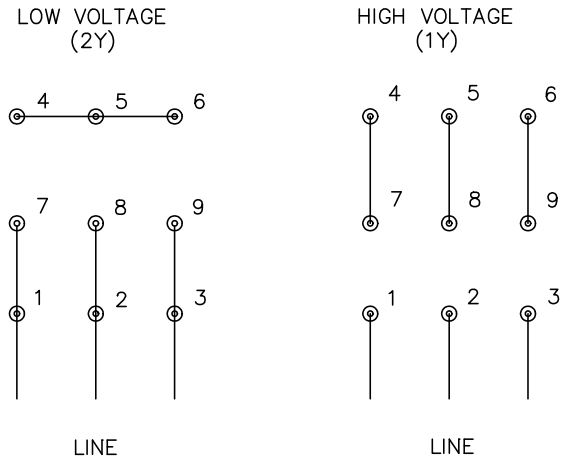
TORQUES(LB-FT): PO=51.1 PU=25.6 LR=30 LRA=79




37LYN346
717-735 = 16.32
736-744 = 17.45
745-750 = 18.20
751-756 = 18.95
3.44
3.88
3.38
GREASE FITTING (EACH END)
NAMEPLATE
.31 KEY 2.38 LONG
Ø 1.3750 1.3745
6 HOLES Ø .43
5.50
3.50
7.00
.50
8.00
9.57
LIFTING LUG (ONE EACH END)
7.90
10.03
5.25 +.00 -.06
LEAD HOLE 1.38 DIA.
4.25
4.25
6.73
4.75
9.50
INTERNAL SHAFT GROUND
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: D
VERSION: 04
REVISED: 03:22:34 08/26/2022
TDR: 000001195814
MODEL NO. 37LYN346
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ 213-5T OPSB 37M, BALDOR INT SHAFT GND
37LYN346

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