ABB BALDOR RELIANCE

Customer information packet

M3710T

7.5HP, 1765RPM, 3PH, 60HZ, 213T, 3731M, TEFC, F
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	10.100 A @ 460.0 V
	20.200 A @ 230.0 V
	22.000 A @ 208.0 V
Design Code	A
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
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a

Part Detail

Revision	F
Type	AC
Mech. spec.	37G813
Base	
Status	NLA/A
Elec. spec.	37WGS150
Layout	37LYG813
Eff. date	01-13-2011
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	08-09-2006

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	3731M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.89 IN
Power Factor	77
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	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

NP1256L								
CAT.NO.								
SPEC.	37G813S150H1							
HP	7.5							
VOLTS	208-230/460							
AMP	22-20.2/10.1							
RPM	1770							
FRAME	213T	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F	
NEMA-NOM-EFF	89.5	**PF**	77					
RATING	40C AMB-CONT							
CC	010A							
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 22653
Typical performance - not guaranteed values

Winding: 37WGS150-R001	**Type:** 3732M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	22.14 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			22-20.2/10.1	**Breakdown Torque**	78.19 LB-FT
R.P.M.			1770	**Pull-up Torque**	34.99 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	48.08 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	78.69 A
Service Factor (S.F.)			1.15	**No-load Current**	5.26 A
NEMA Nom. Eff.	89.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	1.39 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C
				Locked-rotor Power Factor	38.8
				Rotor inertia	0.787 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	58	71	77	81	83	79
Efficiency	81.5	88.2	89.6	90	88.8	88	89.4
Speed	1792	1786	1778	1771	1762	1752	1765
Line amperes	5.74	6.79	8.35	10.08	12.2	14.39	11.4

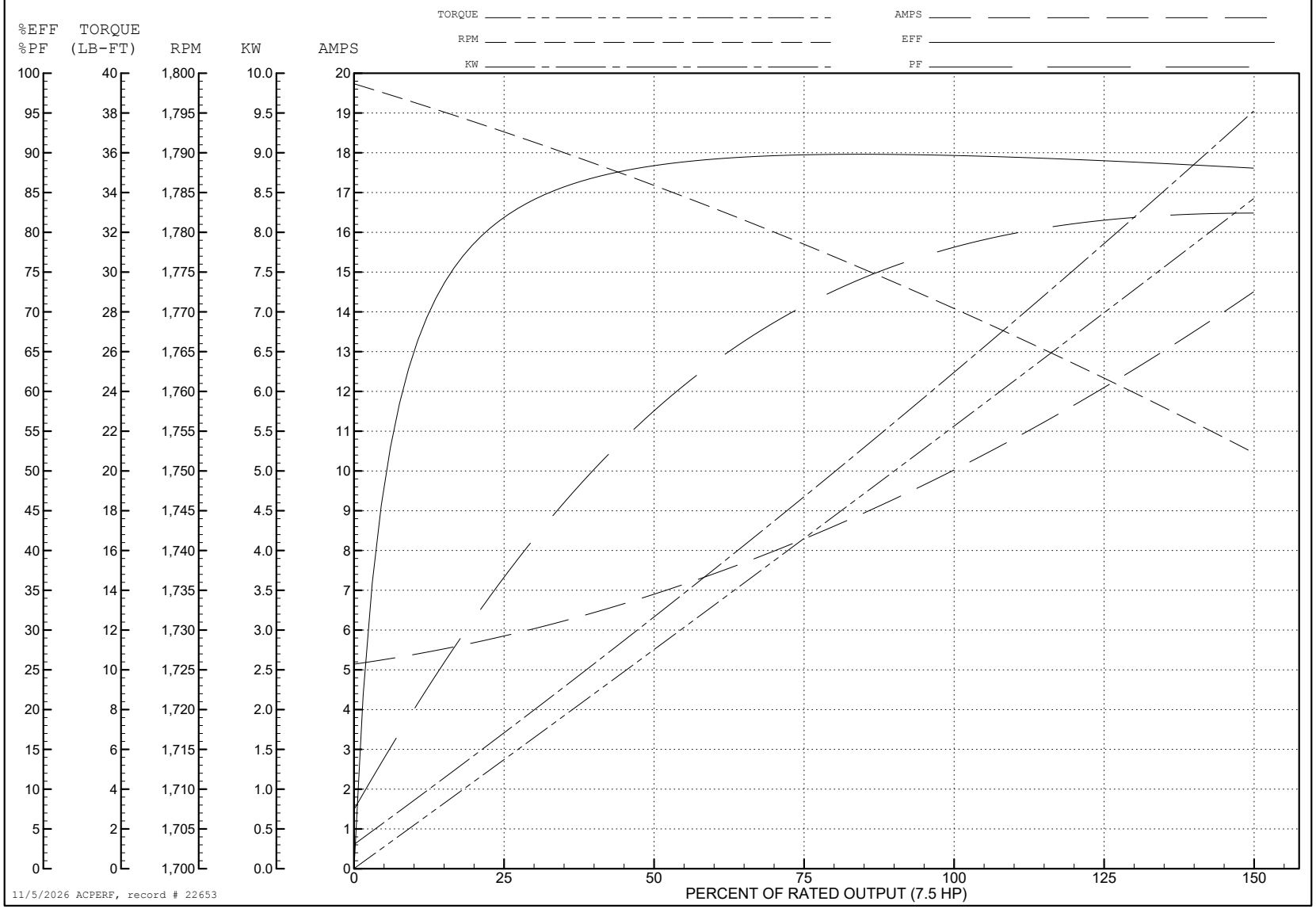
ABB Motors and Mechanical Inc.

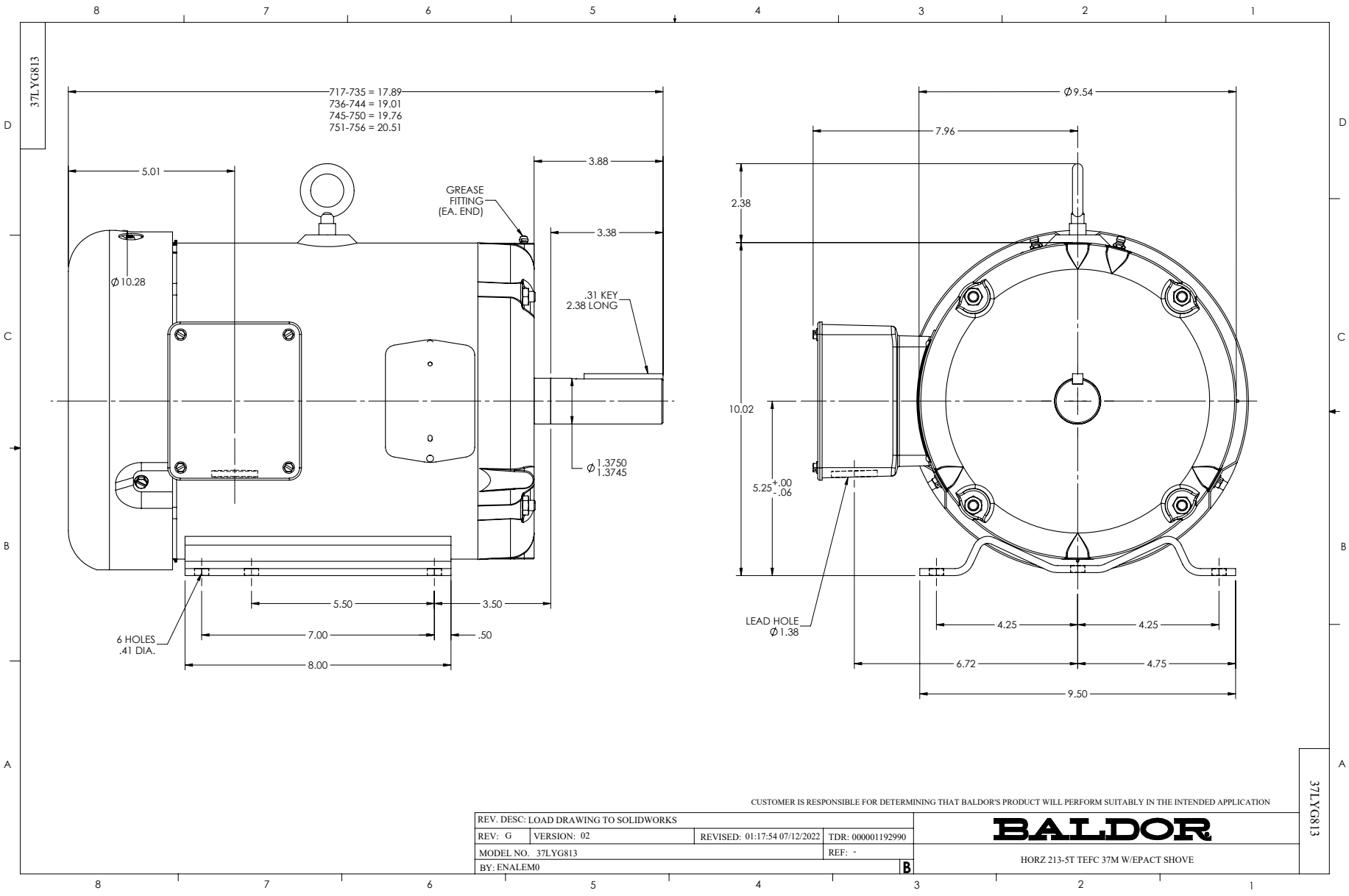
WINDING # 37WGS150

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3732M

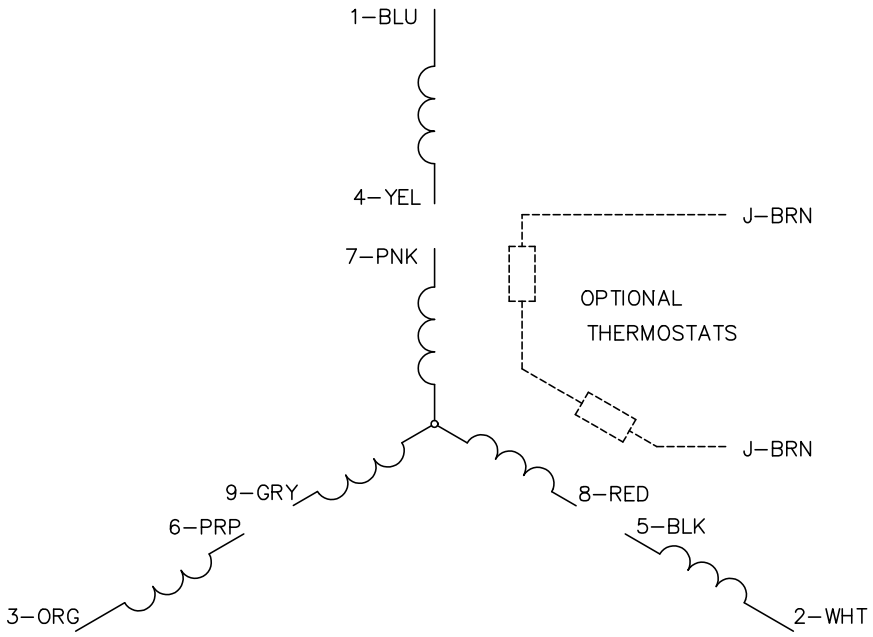
Typical performance - not guaranteed values.

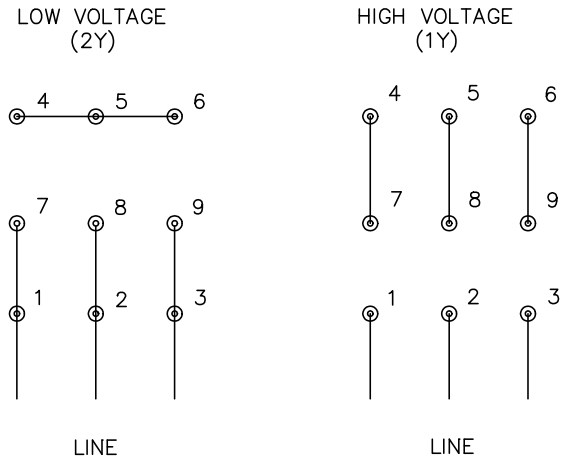
TORQUES(LB-FT): PO=78.19 PU=34.99 LR=48.08 LRA=78.69




37LYG813
717-735 = 17.89
736-744 = 19.01
745-750 = 19.76
751-756 = 20.51
5.01
3.88
GREASE FITTING (EA. END)
3.38
Ø10.28
.31 KEY
2.38 LONG
Ø1.3750
1.3745
5.50
3.50
7.00
.50
8.00
6 HOLES
.41 DIA.
Ø9.54
7.96
2.38
10.02
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: G
VERSION: 02
REVISED: 01:17:54 07/12/2022
TDR: 000001192990
MODEL NO. 37LYG813
REF: -
BY: ENALEM0
B
BALDOR
HORZ 213-5T TEFC 37M W/EPACT SHOVE
37LYG813

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