ABB BALDOR RELIANCE

Customer information packet

EM3704T-5

3HP, 1160RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	3.700 A @ 575.0 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
Heater Indicator	No Heater
High Voltage Full Load Amps	3.7 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	37G813
Base	
Status	PRD/A
Elec. spec.	37WGS884
Layout	37LYG813
Eff. date	12-18-2025
CD Diagram	CD0006
Poles	06
Leads	3#14
Proprietary	False
Created date	08-04-2010

Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.01 IN
Power Factor	68
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	1160 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

NP3441L									
CAT.NO.	EM3704T-5								
SPEC.	37G813S884G1								
HP	3								
VOLTS	575								
AMP	3.7								
RPM	1160								
FRAME	213T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	89.5	**PF**	68						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									

AC Induction Motor Performance Data
Record # 32109
Typical performance - not guaranteed values

Winding: 37WGS884-R001	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	13.4 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			3.7	**Breakdown Torque**	50.8 LB-FT
R.P.M.			1160	**Pull-up Torque**	32.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.2 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	27.5 A
Service Factor (S.F.)			1.15	**No-load Current**	2.07 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	4.19 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	23
				Rotor inertia	0.945 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	50	62	69	73	75	70
Efficiency	82	88.5	89.4	89.7	89.1	87.6	89
Speed	1193	1186	1178	1170	1160	1150	1166
Line amperes	2.21	2.57	3.07	3.64	4.36	5.13	4.12

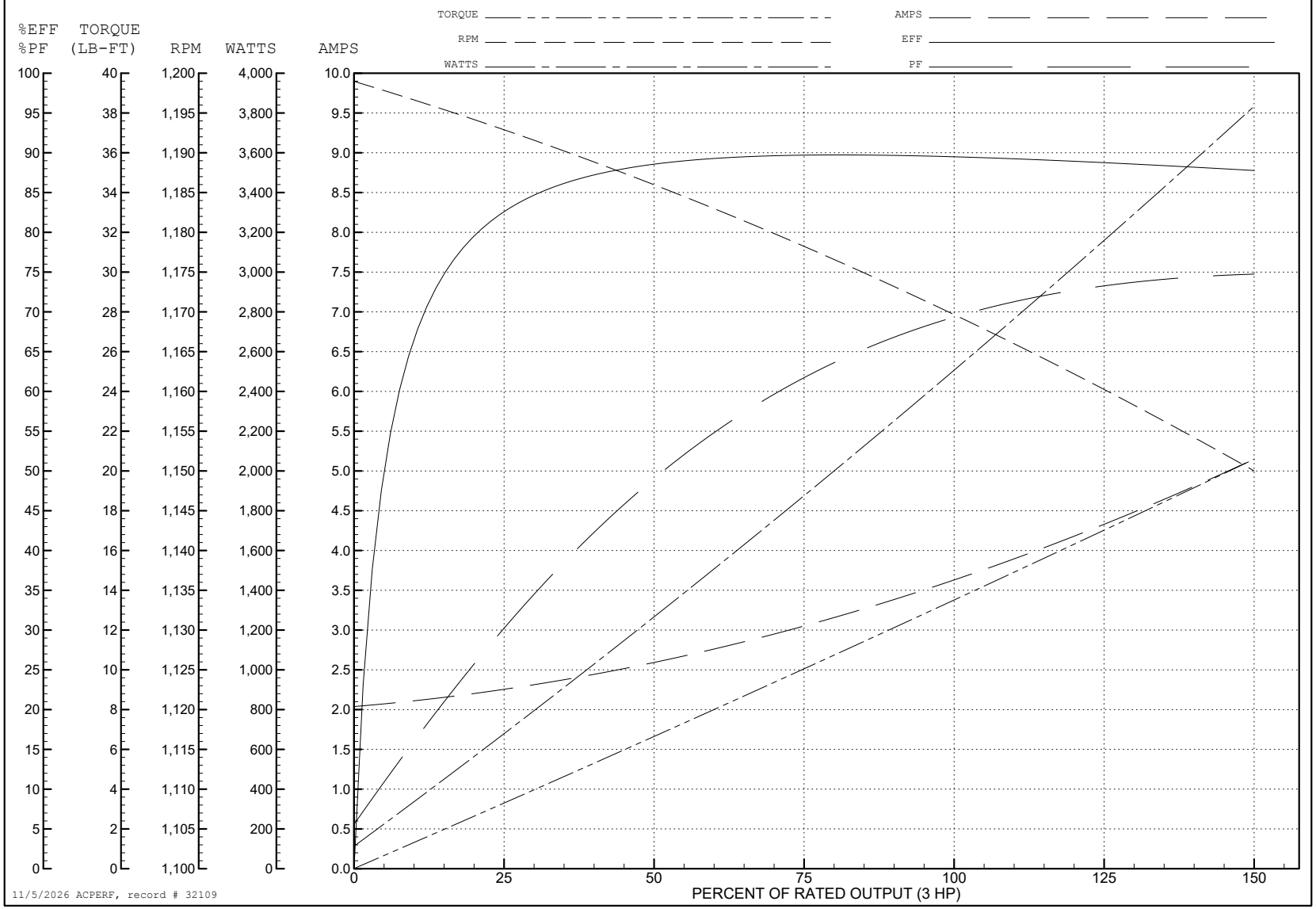
ABB Motors and Mechanical Inc.

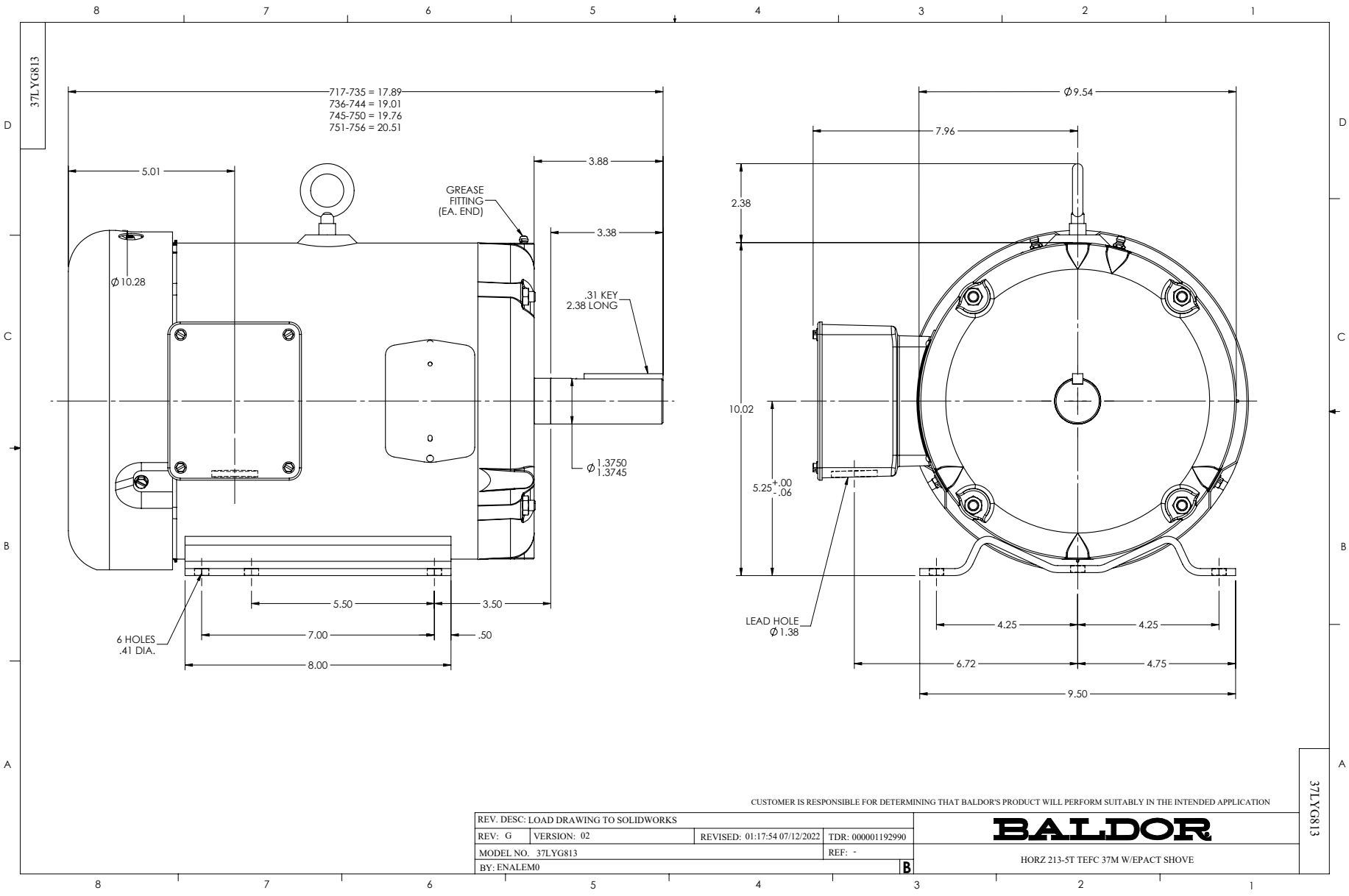
WINDING # 37WGS884

3 HP 3 PH 60 HZ 1160 RPM 575 V 3738M

Typical performance - not guaranteed values.

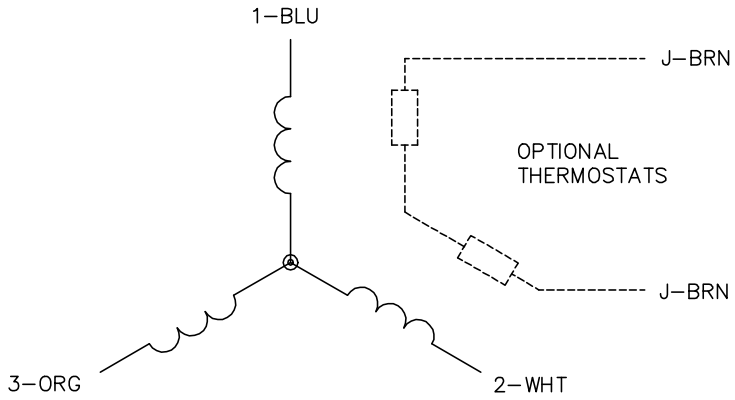
TORQUES(LB-FT): PO=50.8 PU=32.1 LR=34.2 LRA=27.5

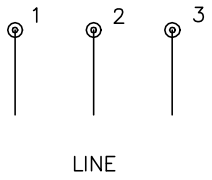



37LYG813
717-735 = 17.89
736-744 = 19.01
745-750 = 19.76
751-756 = 20.51
5.01
3.88
GREASE FITTING (EA. END)
3.38
Ø10.28
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
5.50
3.50
7.00
.50
8.00
6 HOLES
.41 DIA.
Ø9.54
7.96
2.38
10.02
5.25 +.00 -.06
LEAD HOLE
Ø 1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: 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

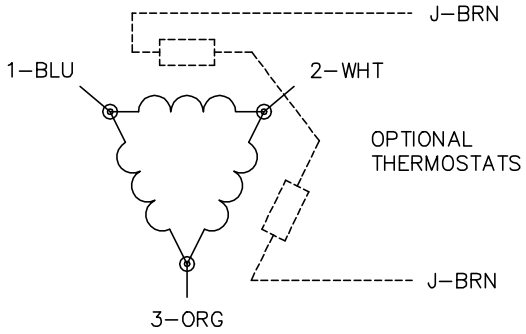
CD0006

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

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