ABB BALDOR RELIANCE

Customer information packet

EM3711T-5

10HP, 3490RPM, 3PH, 60HZ, 215T, 3728M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	9.500 A @ 575.0 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	9.5 a
Insulation Class	F

Part Detail

Revision	K
Type	AC
Mech. spec.	37G813
Base	
Status	PRD/A
Elec. spec.	37WGR021
Layout	37LYG813
Eff. date	12-18-2025
CD Diagram	CD0006
Poles	02
Leads	3#14
Proprietary	False
Created date	11-29-2011

Inverter Code	Inverter Ready
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 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	87
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	3490 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.	EM3711T-5								
SPEC.	37G813R021G1								
HP	10								
VOLTS	575								
AMP	9.5								
RPM	3490								
FRAME	215T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	B	**CL**	F		
NEMA-NOM-EFF	90.2	**PF**	87						
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 # 36090
Typical performance - not guaranteed values

Winding: 37WGR021-R001 **Type:** 3728M **Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			10
Volts			575
Full Load Amps			9.5
R.P.M.			3490
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	G
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	90.2	**Power Factor**	87
Rating - Duty			40C AMB-CONT
S.F. Amps			

575 V, 60 Hz: Single Voltage Motor	
Full Load Torque	15 LB-FT
Start Configuration	direct on line
Breakdown Torque	47.2 LB-FT
Pull-up Torque	22.7 LB-FT
Locked-rotor Torque	26.4 LB-FT
Starting Current	62.9 A
No-load Current	3.53 A
Line-line Res. @ 25ºC	1.48 Ω
Temp. Rise @ Rated Load	78°C
Temp. Rise @ S.F. Load	97°C
Locked-rotor Power Factor	33
Rotor inertia	0.255 LB-FT2

Load Characteristics 575 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	50	72	82	86	88	89	88
Efficiency	86.7	90.9	91.4	90.8	89.3	87.7	90
Speed	3576	3548	3517	3484	3448	3406	3463
Line amperes	4.15	5.65	7.43	9.57	11.8	14.4	10.8

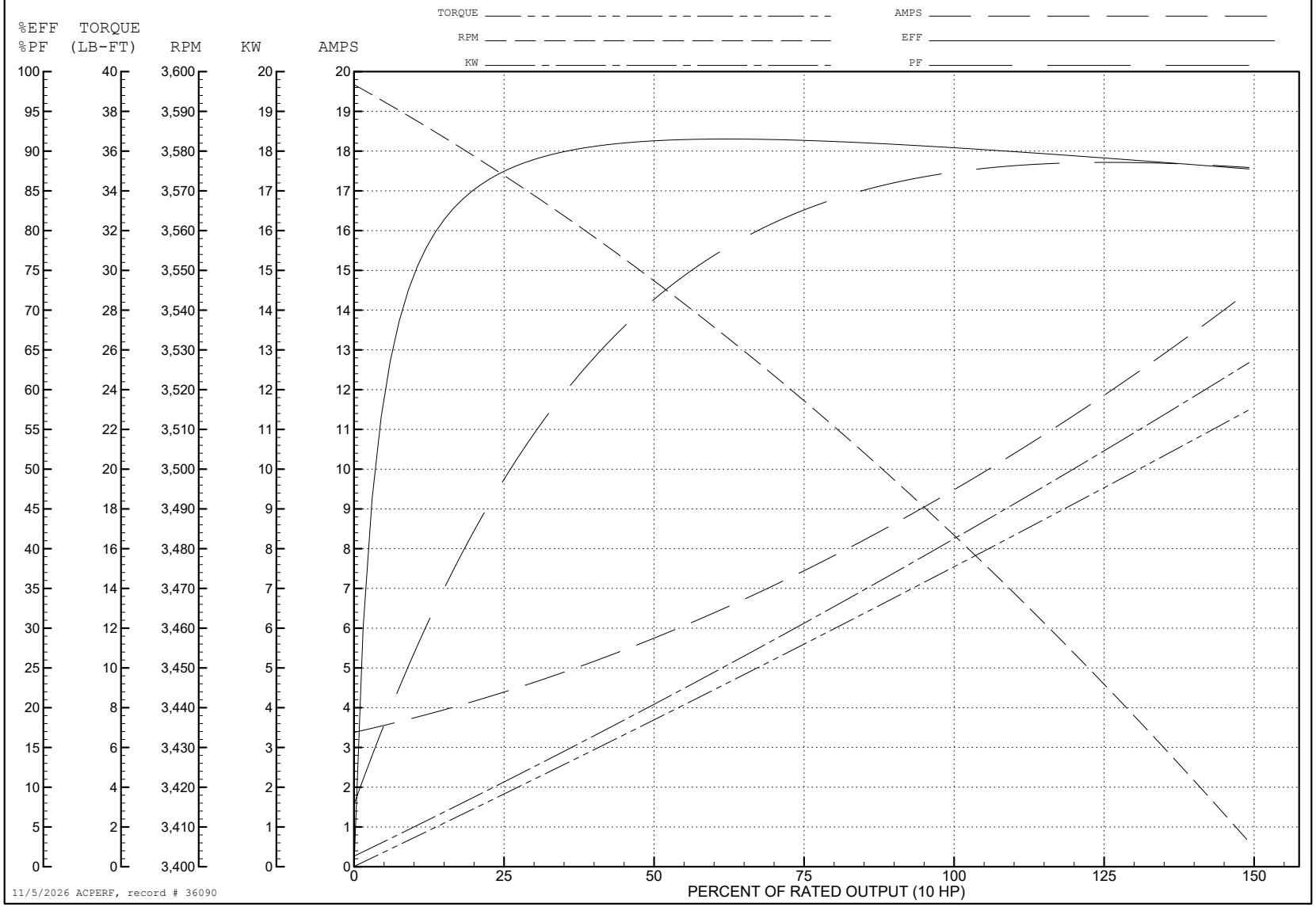
ABB Motors and Mechanical Inc.

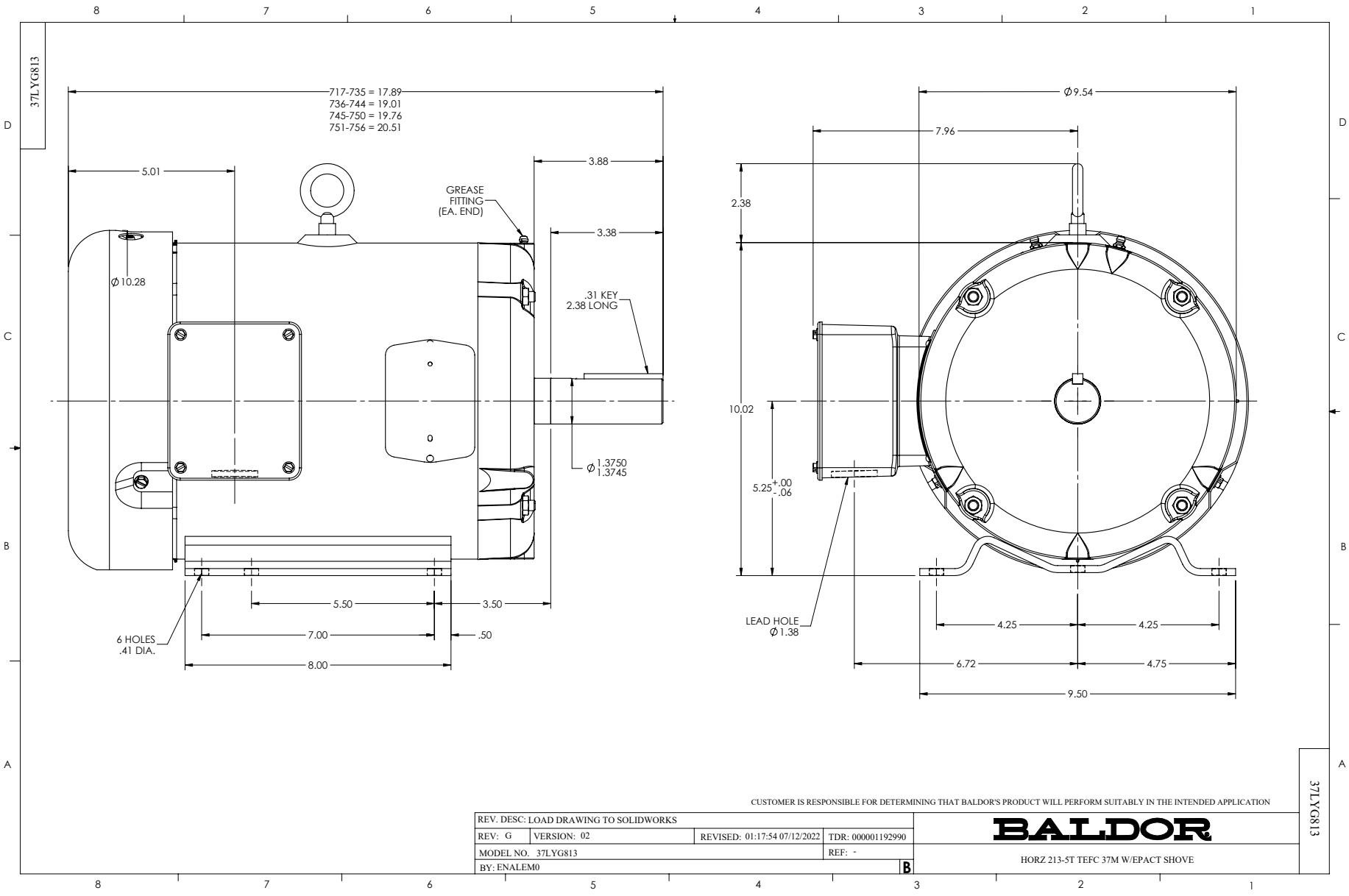
WINDING # 37WGR021

10 HP 3 PH 60 HZ 3490 RPM 575 V 3728M

Typical performance - not guaranteed values.

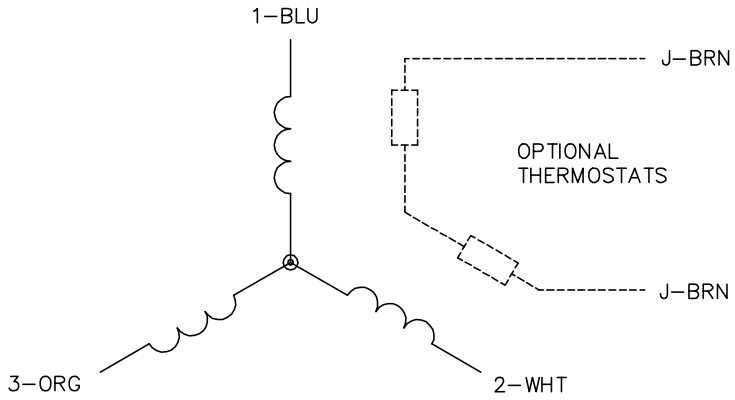
TORQUES(LB-FT): PO=47.2 PU=22.7 LR=26.4 LRA=62.9

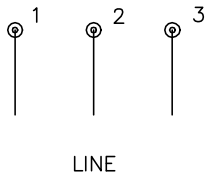



37LYG813
717-735 = 17.89
736-744 = 19.01
745-750 = 19.76
751-756 = 20.51
5.01
3.88
GREASE FITTING (EA. END)
3.38
Ø10.28
.31 KEY
2.38 LONG
Ø1.3750
1.3745
5.50
3.50
7.00
.50
8.00
6 HOLES
.41 DIA.
Ø9.54
7.96
2.38
10.02
5.25 +.00 -.06
LEAD HOLE Ø1.38
4.25
4.25
6.72
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING 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

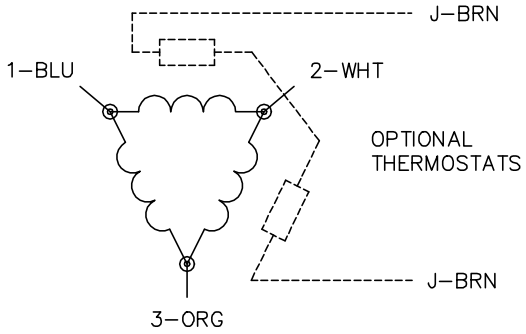
CD0006

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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