BALDOR • RELIANCE

Customer information packet

FDEM3710T-5

7.5HP, 1760RPM, 3PH, 60HZ, 213T, 3738M, TEFC, F
Class - None
Division - Not Applicable

10/4/2024 3:47:57 PM

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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	7.500 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	7.5 a
Insulation Class	F

Part detail

Revision	D
Type	AC
Mech. spec.	37N377
Base	
Status	PRD/A
Elec. spec.	37WGR124
Layout	37LYN377
Eff. date	10-30-2023
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	06-12-2018

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
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	4
Overall Length	19.02 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP3126L										
CAT.NO.	FDEM3710T-5									
SPEC.	37N377R124G2									
HP	7.5									
VOLTS	575									
AMP	7.5									
RPM	1760									
FRAME	213T		**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	H	**DES**	B	**CL**	F			
NEMA-NOM-EFF	91.7	**PF**	81							
RATING	40C AMB-CONT									
CC	010A			**USABLE AT 208V**			N/A			
DE	6307		**ODE**	6206						
ENCL	TEFC	**SN**								
	IP44									

AC Induction Motor Performance Data
Record # 35868
Typical performance - not guaranteed values

Winding: 37WGR124-R002	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	22.18 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			7.5	**Breakdown Torque**	59.92 LB-FT
R.P.M.			1760	**Pull-up Torque**	32.51 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	39.52 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	48.87 A
Service Factor (S.F.)			1.15	**No-load Current**	2.91 A
NEMA Nom. Eff.	91.7	**Power Factor**	81	**Line-line Res. @ 25ºC**	2.4 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	60°C
				Locked-rotor Power Factor	36.5
				Rotor inertia	0.934 LB-FT2

Load Characteristics 575 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	47	68	78	81	83	84	82
Efficiency	88.6	91.8	91.6	91.7	90.9	88.6	91.3
Speed	1791	1783	1773	1764	1753	1740	1757
Line amperes	3.38	4.44	5.83	7.51	9.39	11.39	8.65

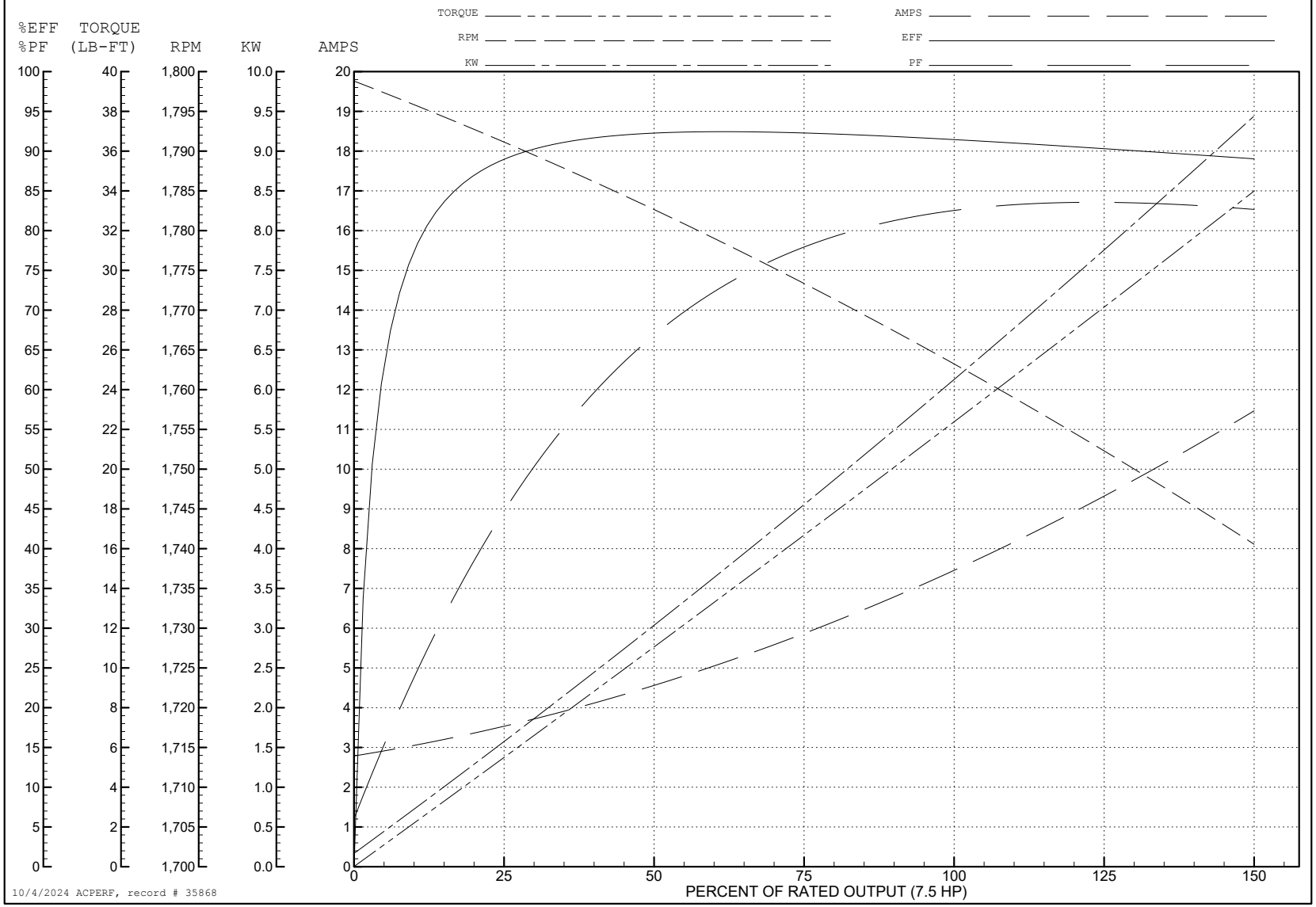
ABB Motors and Mechanical Inc.

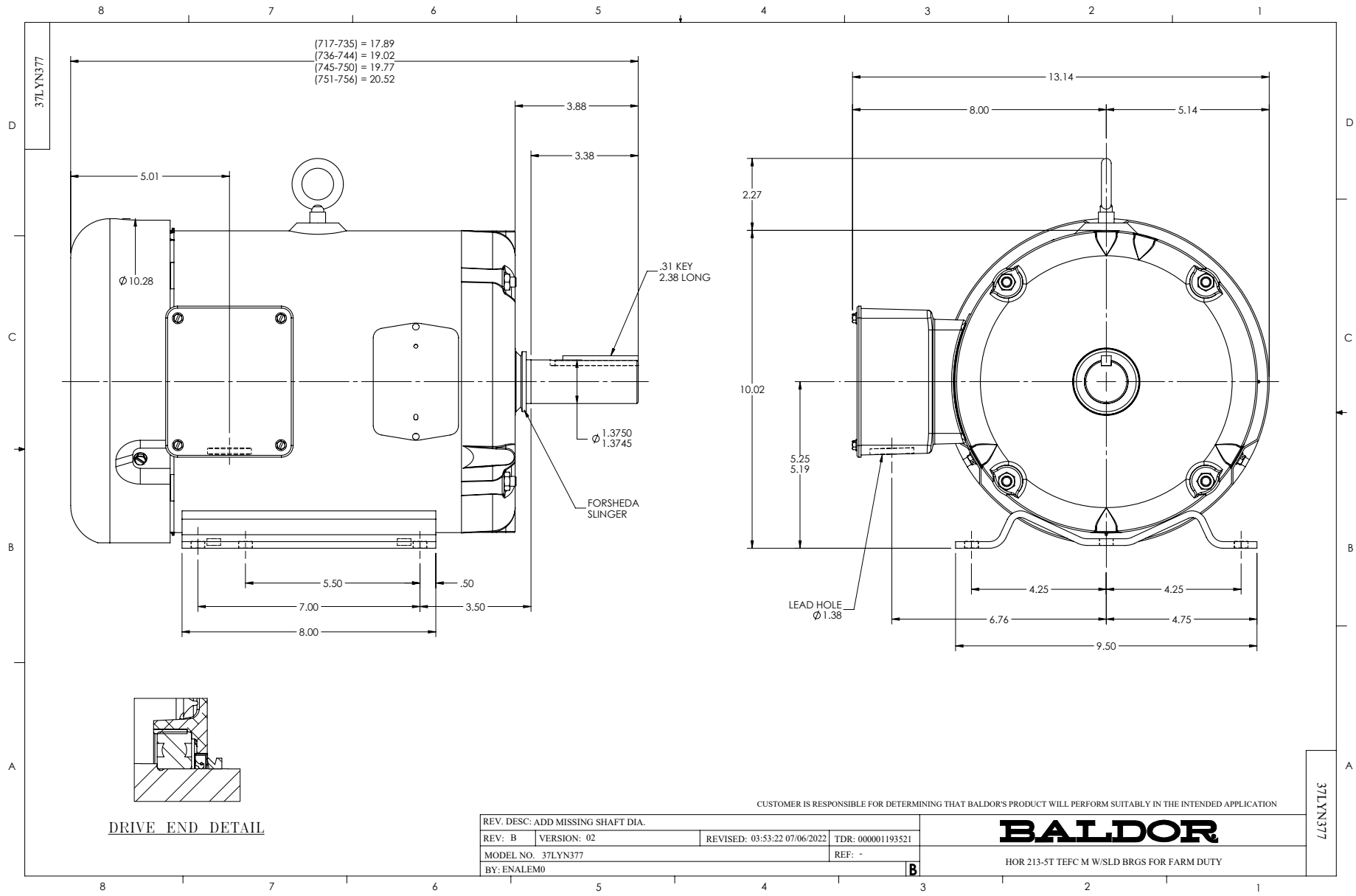
WINDING # 37WGR124

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1760 RPM 575 V 3738M

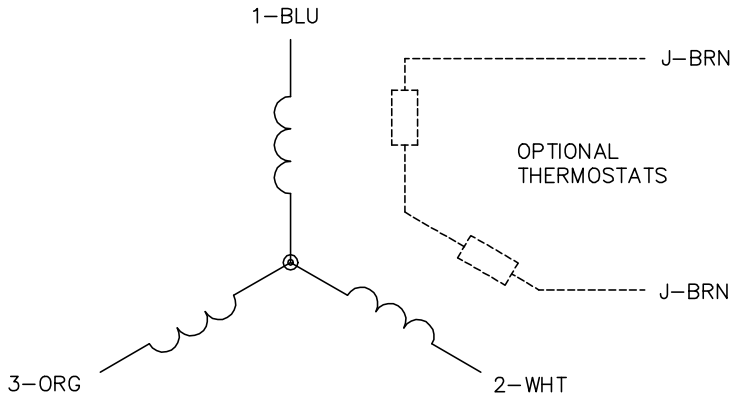
TORQUES(LB-FT): PO=59.92 PU=32.51 LR=39.52 LRA=48.87

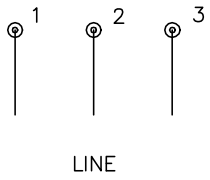



37LYN377
(717-735) = 17.89
(736-744) = 19.02
(745-750) = 19.77
(751-756) = 20.52
3.88
3.38
5.01
Ø 10.28
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
SLINGER
5.50
.50
7.00
3.50
8.00
13.14
8.00
5.14
2.27
10.02
5.25
5.19
LEAD HOLE
Ø 1.38
4.25
4.25
6.76
4.75
9.50
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD MISSING SHAFT DIA.
REV: B
VERSION: 02
REVISED: 03:53:22 07/06/2022
TDR: 000001193521
MODEL NO. 37LYN377
REF: -
BY: ENALEM0
B
BALDOR
HOR 213-5T TEFC M W/SLD BRGS FOR FARM DUTY
37LYN377

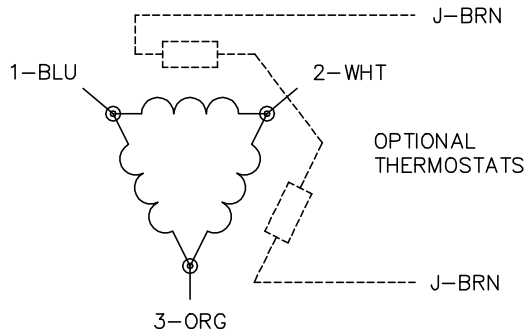
CD0006

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

SH 1 of 1