ABB BALDOR RELIANCE

Customer information packet

FDL3733TM

7.5HP, 1730RPM, 1PH, 60HZ, 213T, 3740LC, TEFC
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	Cap Start, Cap Run
Output @ Frequency	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	30.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
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	30.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	S
Type	AC
Mech. spec.	37N371
Base	
Status	PRD/A
Elec. spec.	37WGT879
Layout	37LYN371
Eff. date	07-25-2024
CD Diagram	CD0152
Poles	04
Leads	2#10 A PH,3#14 B&J
Proprietary	False
Created date	12-11-2013

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.02 IN
Power Factor	97
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1730 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L											
CAT.NO.	FDL3733TM										
SPEC.	37N371T879G1										
HP	7.5										
VOLTS	230										
AMP	30										
RPM	1730										
FRAME	213T	**HZ**	60		**PH**	1					
SER.F.	1.00	**CODE**	H	**DES**	L	**CL**	F				
NEMA-NOM-EFF	84	**PF**	97								
RATING	40C AMB-CONT										
CC											
DE	6307	**ODE**	6206								
ENCL	TEFC	**SN**									

Accessories

Part number	Description	Multiplier
37-3301FD	C FACE KIT FARM DUTY 213-5TC, ENCL, 6307	A8

AC Induction Motor Performance Data
Record # 18791
Typical performance - not guaranteed values

Winding: 37WGT879-R001	**Type:** 3740LC	**Enclosure:** TEFC

Nameplate Data			**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		7.5	**Full Load Torque**	22.6 LB-FT
Volts		230	**Start Configuration**	direct on line
Full Load Amps		30	**Breakdown Torque**	81.3 LB-FT
R.P.M.		1730	**Pull-up Torque**	60 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	88.4 LB-FT
NEMA Design Code	L **KVA Code**	H	**Starting Current**	222.4 A
Service Factor (S.F.)		1	**No-load Current**	8.67 A
NEMA Nom. Eff.	84 **Power Factor**	97	**Line-line Res. @ 25ºC**	0.199 Ω A Ph 0.516 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	87°C

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	79	90	94	96	96	96
Efficiency	68	81.1	84.7	85.2	83.8	80.6
Speed	1782	1767	1750	1731	1708	1680
Line amperes	11.3	16.5	22.6	29.6	37.5	46.9

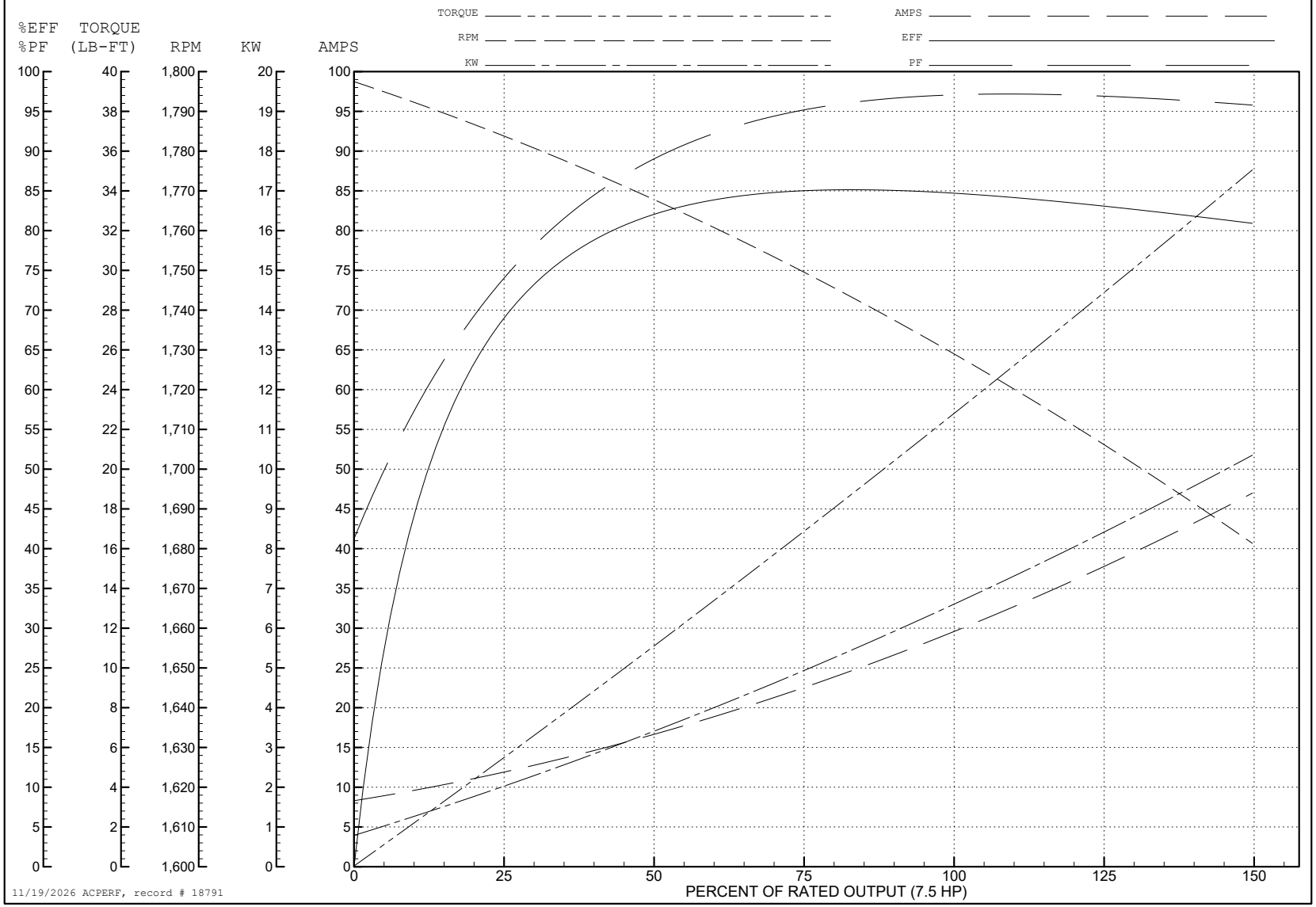
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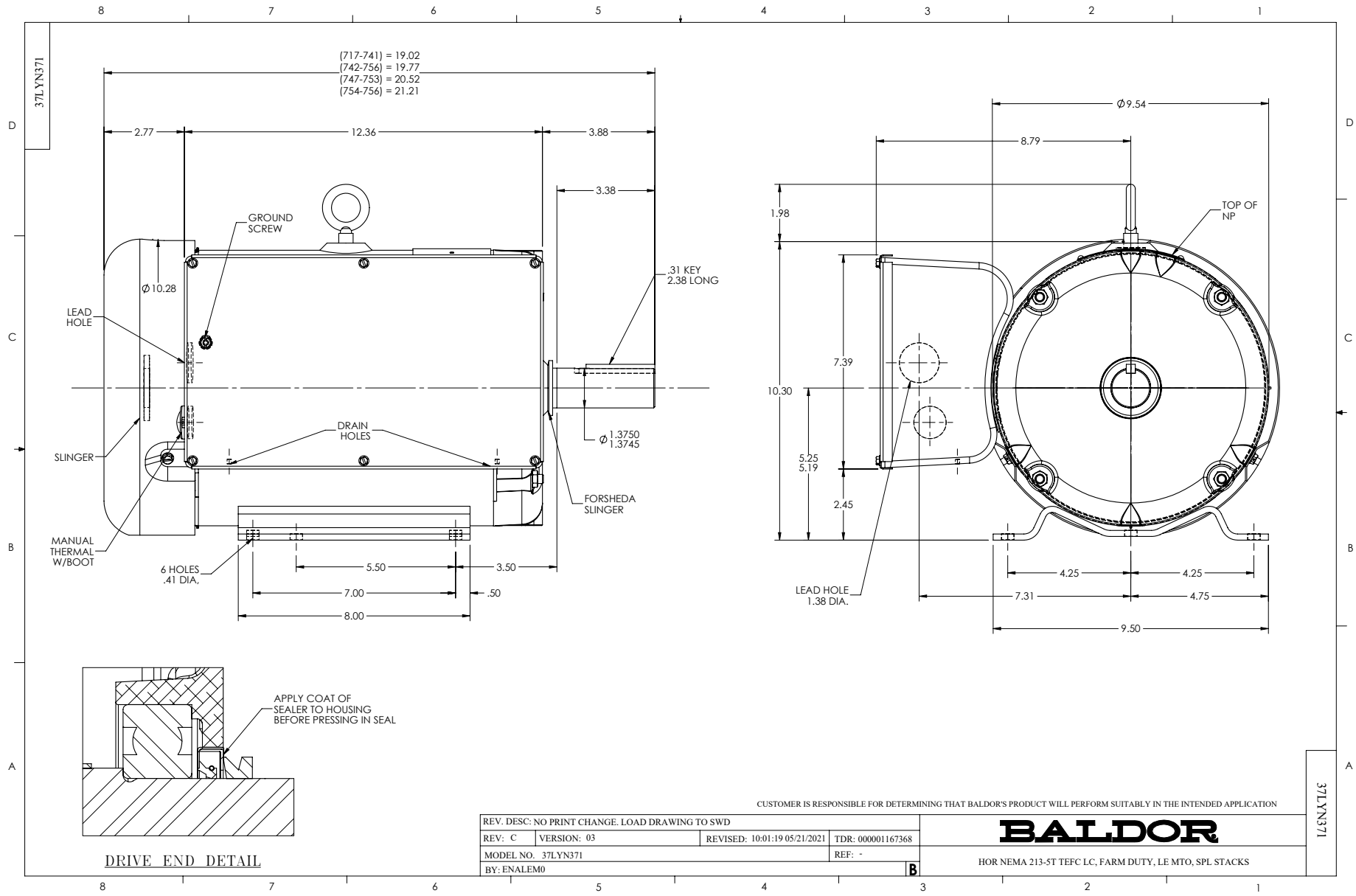
WINDING # 37WGT879

7.5 HP 1 PH 60 HZ 1730 RPM 230 V 3740LC

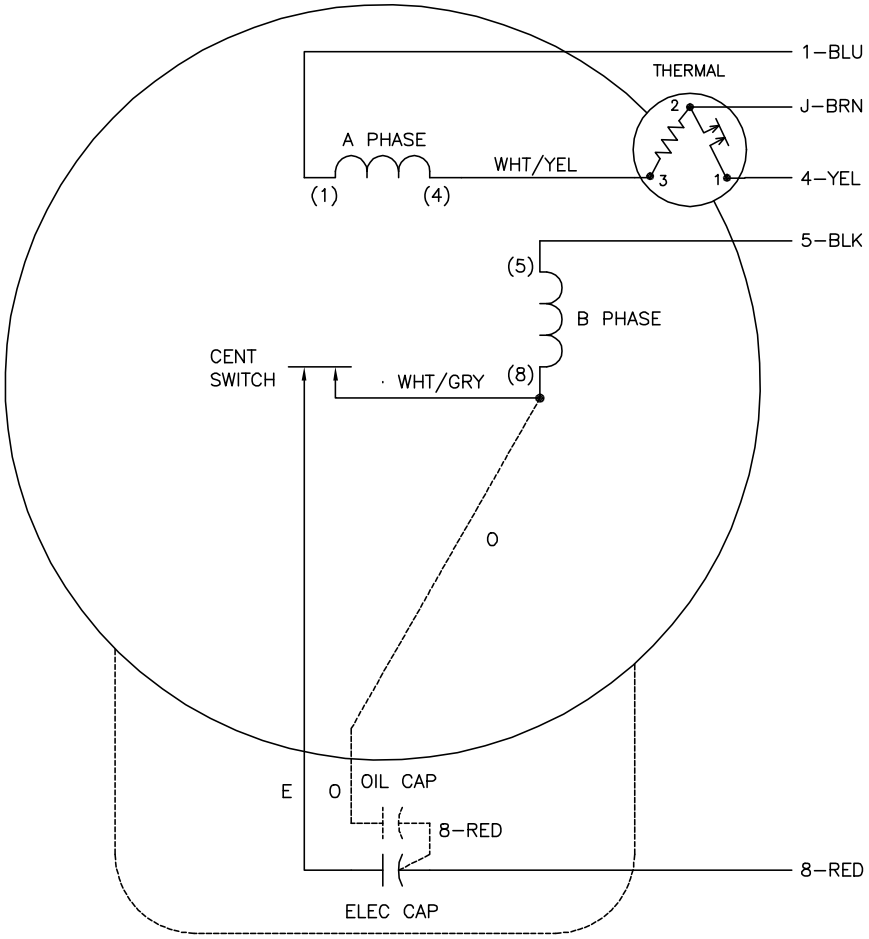
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=81.3 PU=60 LR=88.4 LRA=222.4




37LYN371
(717-741) = 19.02
(742-756) = 19.77
(747-753) = 20.52
(754-756) = 21.21
2.77
12.36
3.88
3.38
GROUND SCREW
Ø10.28
LEAD HOLE
.31 KEY
2.38 LONG
SLINGER
DRAIN HOLES
Ø1.3750
1.3745
FORSHEDA SLINGER
MANUAL THERMAL W/BOOT
6 HOLES .41 DIA.
5.50
3.50
7.00
.50
8.00
Ø9.54
8.79
1.98
TOP OF NP
7.39
10.30
5.25
5.19
2.45
4.25
4.25
LEAD HOLE 1.38 DIA.
7.31
4.75
9.50
APPLY COAT OF SEALER TO HOUSING BEFORE PRESSING IN SEAL
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NO PRINT CHANGE. LOAD DRAWING TO SWD
REV: C
VERSION: 03
REVISED: 10:01:19 05/21/2021
TDR: 000001167368
MODEL NO. 37LYN371
REF: -
BY: ENALEM0
B
BALDOR
HOR NEMA 213-5T TEFC LC, FARM DUTY, LE MTO, SPL STACKS
37LYN371

CD0152



	LINE A	LINE B	JOIN
STD	1,8	4	J,5
OPP	1,5	4	J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. OPTIONAL OIL CAPACITOR IS PROVIDED WHEN SPECIFIED.
4. CAPACITORS MAY BE SEPERATELY MOUNTED.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000373039	
CD0152	FILE: \AAA\00026\903	REVISED: 11:23:45 08/11/2005	TYPE L OR LC, SV, REV, 5 LDS, THERM, CAPS MAY BE SEP MTD
	MTL: –	BY: ENJOEP0	

CD0152