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**								

Parts List

Part number	Description	Quantity
SA274238	SA 37N371T879G1	1.000 ea
RA260825	RA 37N371T879G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	1.000 ea
OC3040F18SP	7YL OIL CAP 40MFD/370V	1.000 ea
TPLED1024SP	THERMAL 1PH 1.5 MAN REF LED945 TDR #5817	1.000 ea
EC1189C06SP	ELEC CAP, 189-227 MFD, 250V, 2.06D X 4.	2.000 ea
EC1161C06SP	ELEC CAP, 161-193 MFD, 250V, 2.06D X 4.	2.000 ea
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37EP3101A04	FR ENDPLATE, MACH	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
37GS3015	GASKET, CAPAC BOX	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
37CB3804A04	CAPAC BOX MACH	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	4.000 ea
HA6003A47	CAPAC CLAMP	1.000 ea
HA6003A45	CAPAC CLAMP - CLIP (WHITE ZINC PLATED)	2.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	4.000 ea
HA2001A09	SPACER, .218 ID X .937 LG	2.000 ea
51XN1032A28	10-32 X 1 3/4 HX WS SL SR	2.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	2.000 ea
RM1015	BOOT FOR 1.50 MANUAL THERMALS	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37PE3100A42	37 PUEP ASSEMBLY FOR SEAL	1.000 ea
HW4600H13	SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007A33	IEC FAN CVR W/NOTCH FOR 37CB3804 CAPAC B	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4509	CAPAC BOX LID, STAMPED	1.000 ea

37GS3016	GASKET, CAPAC BOX LID	1.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
HW4600B33	V-RING SLINGER 1.375 X 1.890 X .35 VITON	1.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1087	LABEL,MANUAL RESET (ROLL LABEL)	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
51XF1032G06	10-32X3/8 HX WSHR STD SER TYP F	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
HW1001A10	WASHER, #10 SPLT LK, ZN X	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFAST SG, 787.105, TAN	0.028 ga
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
TP5059	GENERIC WELDED THERMAL, 7" LEAD KIT	1.000 ea
SP5172A03	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
NS2605	INSULATOR FOR 37 FRAMESWITCH (MH1011A10)	1.000 ea
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	12.000 ea
LD5000A23	LEAD ASSY, ML1400DF10 W/#10 RING 12"	1.000 ea
LC0002	CONNECTION LABEL	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

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

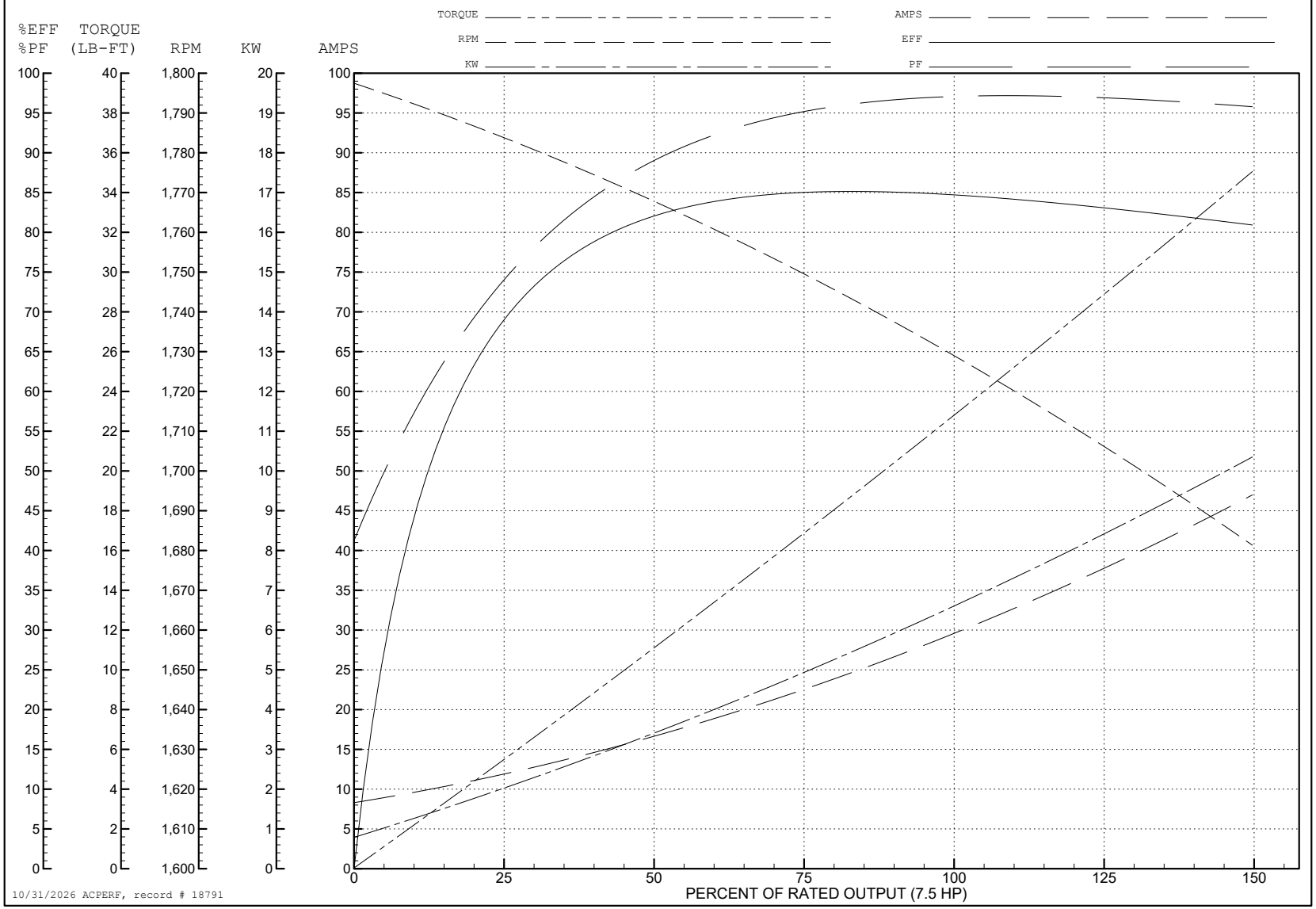
ABB Motors and Mechanical Inc.

WINDING # 37WGT879

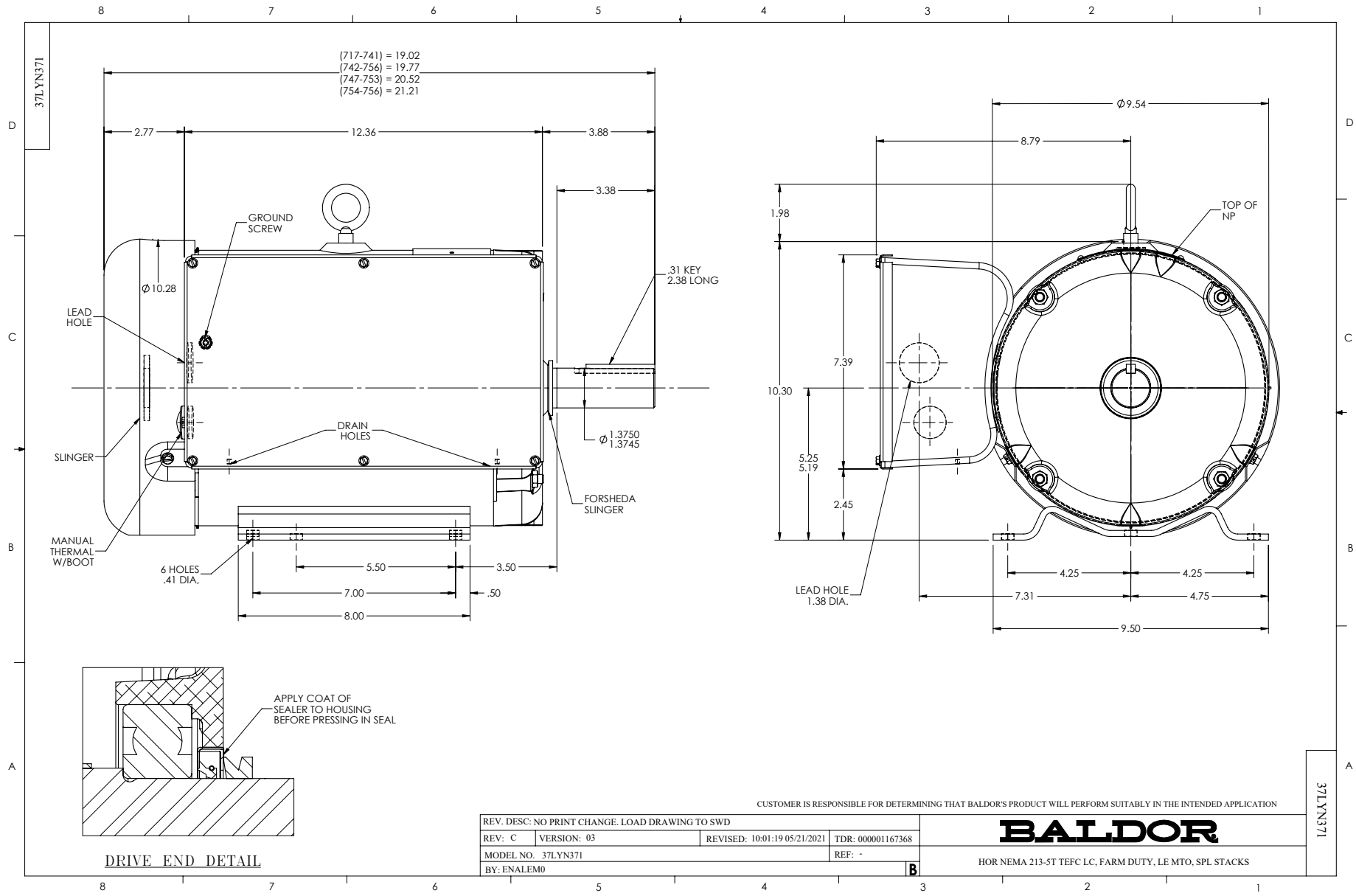
7.5 HP 1 PH 60 HZ 1730 RPM 230 V 3740LC

Typical performance - not guaranteed values.

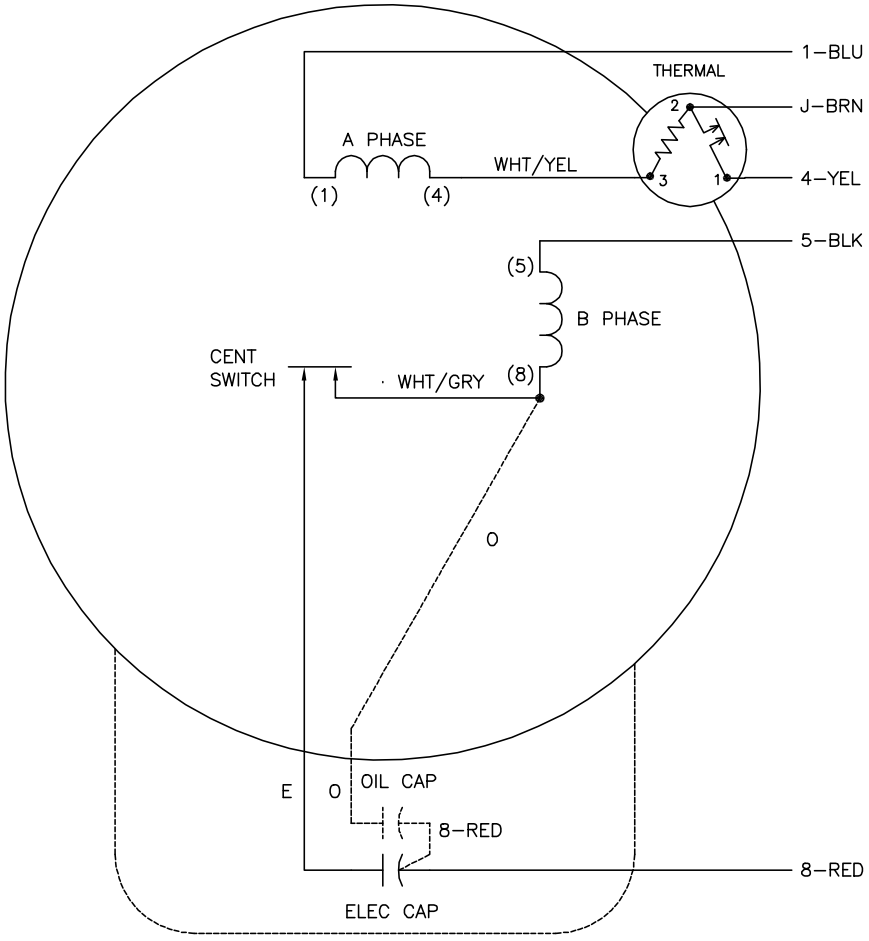
TORQUES(LB-FT): PO=81.3 PU=60 LR=88.4 LRA=222.4



10/31/2026 ACPERF, record # 18791


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