ABB BALDOR RELIANCE

Customer information packet

JML1512T

10HP, 1725RPM, 1PH, 60HZ, 215JM, 3744LC, ODTF
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODTF
Frame	215JM
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	10.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	45.000 A @ 208.0 V
	41.000 A @ 230.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	41.0 a
Insulation Class	F

Part Detail

Revision	AA
Type	AC
Mech. spec.	37F842
Base	
Status	PRD/A
Elec. spec.	37WGY497
Layout	37LYF842
Eff. date	07-19-2024
CD Diagram	CD0086
Poles	04
Leads	2#8 A PH,2#14 B PH
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 8 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.95 IN
Power Factor	94
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1725 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

NP1256L									
CAT.NO.	JML1512T								
SPEC.	37F842Y497								
HP	10								
VOLTS	230								
AMP	41								
RPM	1725								
FRAME	215JM	**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	F	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	84	**PF**	94						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6206						
ENCL	ODTF	**SN**							

Parts List

Part number	Description	Quantity
SA088196	SA 37F842Y497	1.000 ea
RA081124	RA 37F842Y497	1.000 ea
OC3040F18SP	7YL OIL CAP 40MFD/370V	2.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	3.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
13XT0832A07	8-32X7/16 TYP 23 PAN HD SLT DX	2.000 ea
37EP3203B01	B00 W/2ND GREASER	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA1104A01	RODENT SCREEN 37 FRAME 206 BRG FRONT END	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
37CB3804A01	SPL CAPAC. BOX 37 MOTORS FOR 6-7 CAPAC.	1.000 ea
37CB2804	ADAPTER, 37 KO BOX (SHOE BOX)	2.000 ea
37GS1017	GASKET - CONDUT BOX .06 THK NEOPRENE	4.000 ea
19XW2520A16	SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HA3104A17	5/16-18X13.250 T-BLT/OHIO	4.000 ea
37CB4509	CAPAC BOX LID, STAMPED	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 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
51XF1032G06	10-32X3/8 HX WSHR STD SER TYP F	1.000 ea
HW1001A10	WASHER, #10 SPLT LK, ZN X	1.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea

37EP3401A46	PUEP OPEN 309 BRG W/BAFFLE, GRS, REL, MF	1.000 ea
HA1222	RODENT SCREEN - 37 C-FACE MOTORS	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
37AD2000A02	BAFFLE PLATE, STAMPED PLATED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
37FH4000A05SP	DRIP COVER, W/ PRIMER	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
SP5172A03	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
LC0086	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 34220
Typical performance - not guaranteed values

Winding: 37WGY497-R001	**Type:** 3744LC	**Enclosure:** ODTF

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	30.3 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			41	**Breakdown Torque**	78.7 LB-FT
R.P.M.			1725	**Pull-up Torque**	57.9 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	69.1 LB-FT
NEMA Design Code	L	**KVA Code**	F	**Starting Current**	225 A
Service Factor (S.F.)			1.15	**No-load Current**	10.2 A
NEMA Nom. Eff.	84	**Power Factor**	94	**Line-line Res. @ 25ºC**	0.18838 Ω A Ph 0.70995 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	87°C
S.F. Amps				**Temp. Rise @ S.F. Load**	119°C

Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	80	92	95	95	94	92	94
Efficiency	75.1	84.6	85.8	83.9	79.7	74.8	81.4
Speed	1785.6	1770.4	1753.1	1728.9	1700	1666.3	1712
Line amperes	13.5	20.6	29.7	40.8	53.9	70.5	48.7

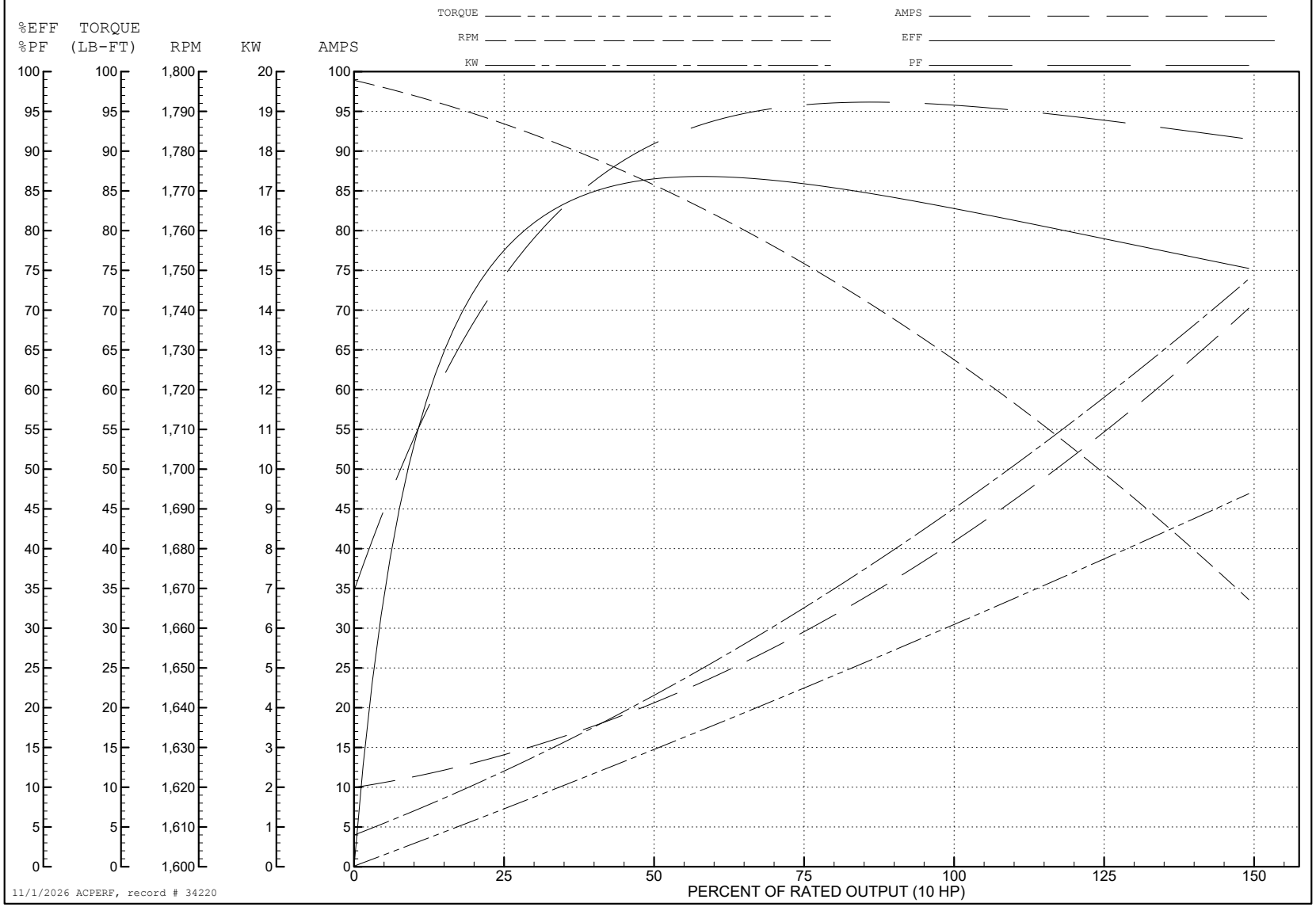
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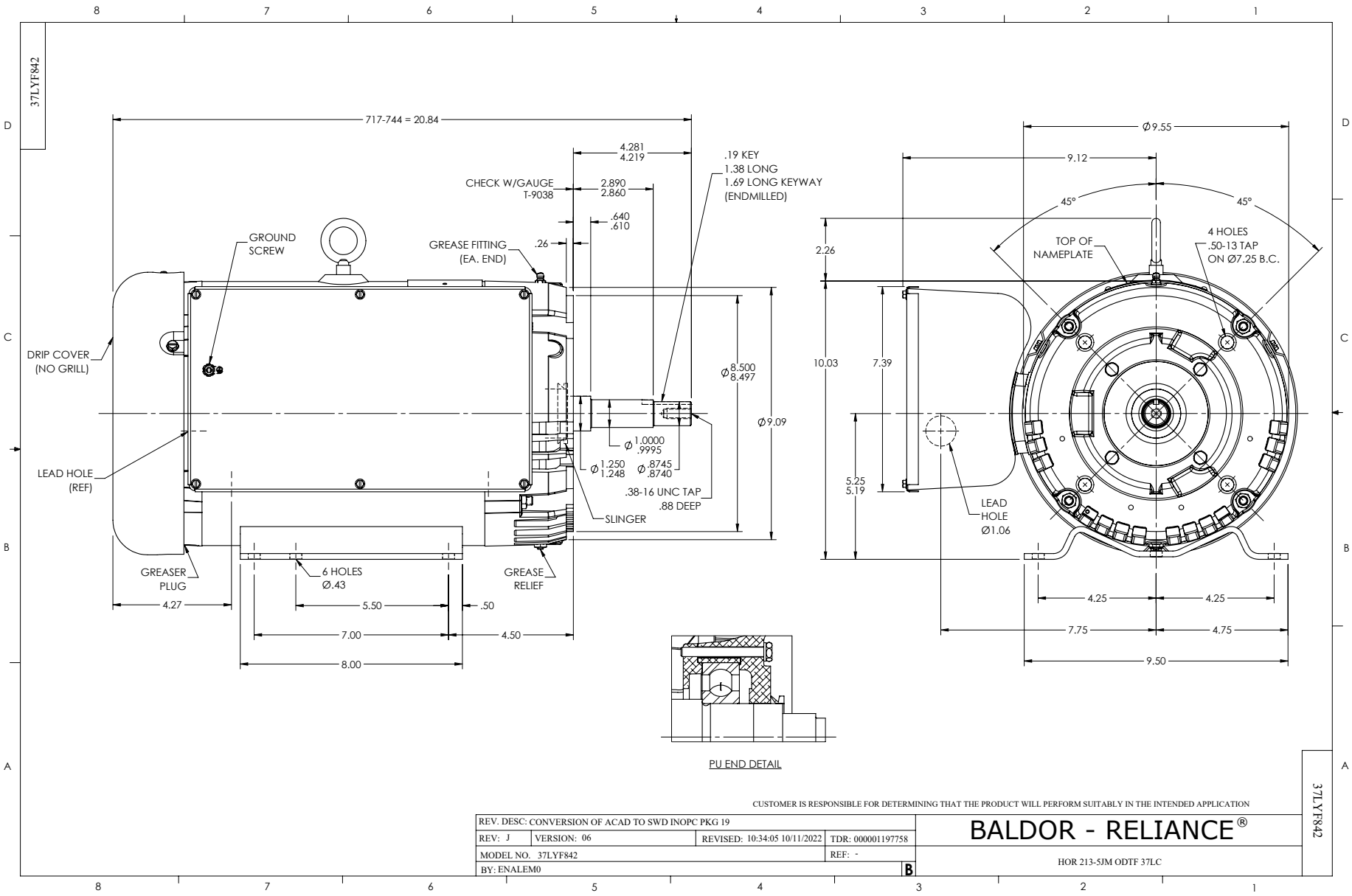
WINDING # 37WGY497

10 HP 1 PH 60 HZ 1725 RPM 230 V 3744LC

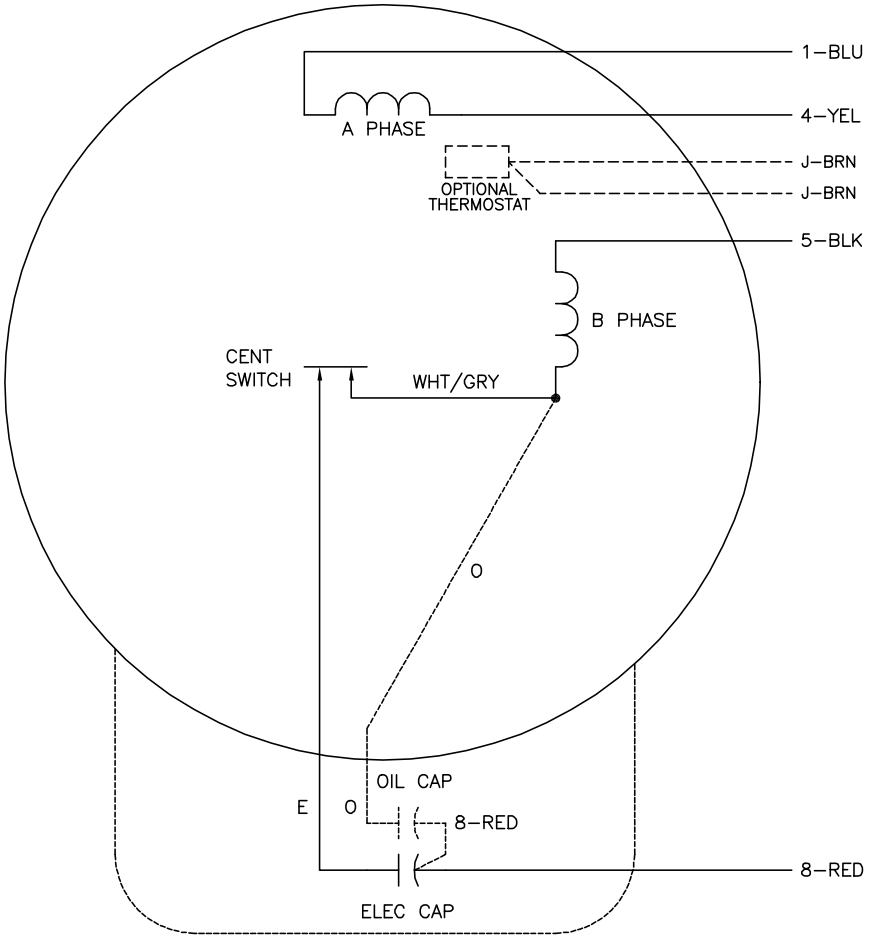
TORQUES(LB-FT): PO=78.7 PU=57.9 LR=69.1 LRA=225

Typical performance - not guaranteed values.




37LYF842
717-744 = 20.84
4.281
4.219
.19 KEY
1.38 LONG
1.69 LONG KEYWAY
(ENDMILLED)
CHECK W/GAUGE
T-9038
2.890
2.860
.640
.610
.26
GROUND
SCREW
GREASE FITTING
(EA. END)
DRIP COVER
(NO GRILL)
LEAD HOLE
(REF)
Ø8.500
8.497
Ø9.09
Ø 1.0000
.9995
Ø 1.250
1.248
Ø .8745
.8740
.38-16 UNC TAP
.88 DEEP
SLINGER
GREASER
PLUG
6 HOLES
Ø.43
GREASE
RELIEF
4.27
5.50
.50
7.00
4.50
8.00
Ø9.55
9.12
45°
45°
TOP OF
NAMEPLATE
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
2.26
10.03
7.39
5.25
5.19
LEAD
HOLE
Ø1.06
4.25
4.25
7.75
4.75
9.50
PU END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: J
VERSION: 06
REVISED: 10:34:05 10/11/2022
TDR: 000001197758
MODEL NO. 37LYF842
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5JM ODTF 37LC
37LYF842

CD0086



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

NOTES:

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

REV. DESC: ADDED CK TO PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JD	REVISED: 16:01:12 01/07/2002	TDR: 259409
9800CD		FILE: AAA00026904	REF: CD0086
		MTL: –	TYPE L OR LC, SV, REV, 4 LEADS, CAPS MAY BE SEP MTD

CD0086