ABB BALDOR RELIANCE

Customer information packet

L3705

3HP, 1725RPM, 1PH, 60HZ, 215, 3735LC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215
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	3.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	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	30.000 A @ 115.0 V
	15.000 A @ 208.0 V
	14.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AN
Type	AC
Mech. spec.	37C011
Base	
Status	PRD/A
Elec. spec.	37WGX229
Layout	37LYC011
Eff. date	05-10-2024
CD Diagram	CD0076
Poles	04
Leads	8#14
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	14.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	8 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3735LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.51 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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.	L3705										
SPEC.	37C11X229										
HP	3										
VOLTS	115/230										
AMP	30/14										
RPM	1725										
FRAME	215		**HZ**	60			**PH**	1			
SER.F.	1.15	**CODE**	K	**DES**	L	**CLASS**	F				
NEMA-NOM-EFF	80	**PF**	90								
RATING	40C AMB-CONT										
CC											
DE	6307		**ODE**	6206							
ENCL	TEFC	**SN**									

Parts List

Part number	Description	Quantity
SA030594	SA 37C11X229	1.000 ea
RA026633	RA 37C11X229	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1850A06SP	ELEC CAP 115V 2.0 X 4.3 X	2.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XT0832A07	8-32X7/16 TYP 23 PAN HD SLT DX	2.000 ea
NS2605	INSULATOR FOR 37 FRAMESWITCH (MH1011A10)	1.000 ea
37GS3012A01	GASKET,CAP.BOX 1/16"THICKLEXIDE SV-330 T	1.000 ea
10XN2520A10	1/4-20X 5/8 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
07FH4007A41	IEC FH W/GRSR, NOTCH @ 6:00 & 3 FAN CVR,	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E18	KEY, 1/4 SQ X 2.000	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
37CB3802SP	CAPACITOR COVER, CAST	1.000 ea
HA7010A01	CAPACITOR RETENTION CLAMP, 6.562 LONG	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb

37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	6.000 ea
SP5127A10	MODEL 37 TYPE L/LC STATIONARY SWITCH LEA	1.000 ea
HA3104A27	THRUBOLT 5/16 18 X 12.438	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0076	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

AC Induction Motor Performance Data
Record # 61379
Typical performance - not guaranteed values

Winding: 37WGX229-R005	**Type:** 3735LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	9.1 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			30/14	**Breakdown Torque**	24 LB-FT
R.P.M.			1725	**Pull-up Torque**	20 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	45 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	110 A
Service Factor (S.F.)			1.15	**No-load Current**	5 A
NEMA Nom. Eff.	80	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.581 Ω A Ph 2.08 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	64	80	86	90	91	92	91
Efficiency	61.3	74.6	79.2	80.7	80.4	79	80.5
Speed	1784	1771	1756	1740	1722	1701	1729
Line amperes	6.2	8.2	10.7	13.5	16.6	20.2	15.4

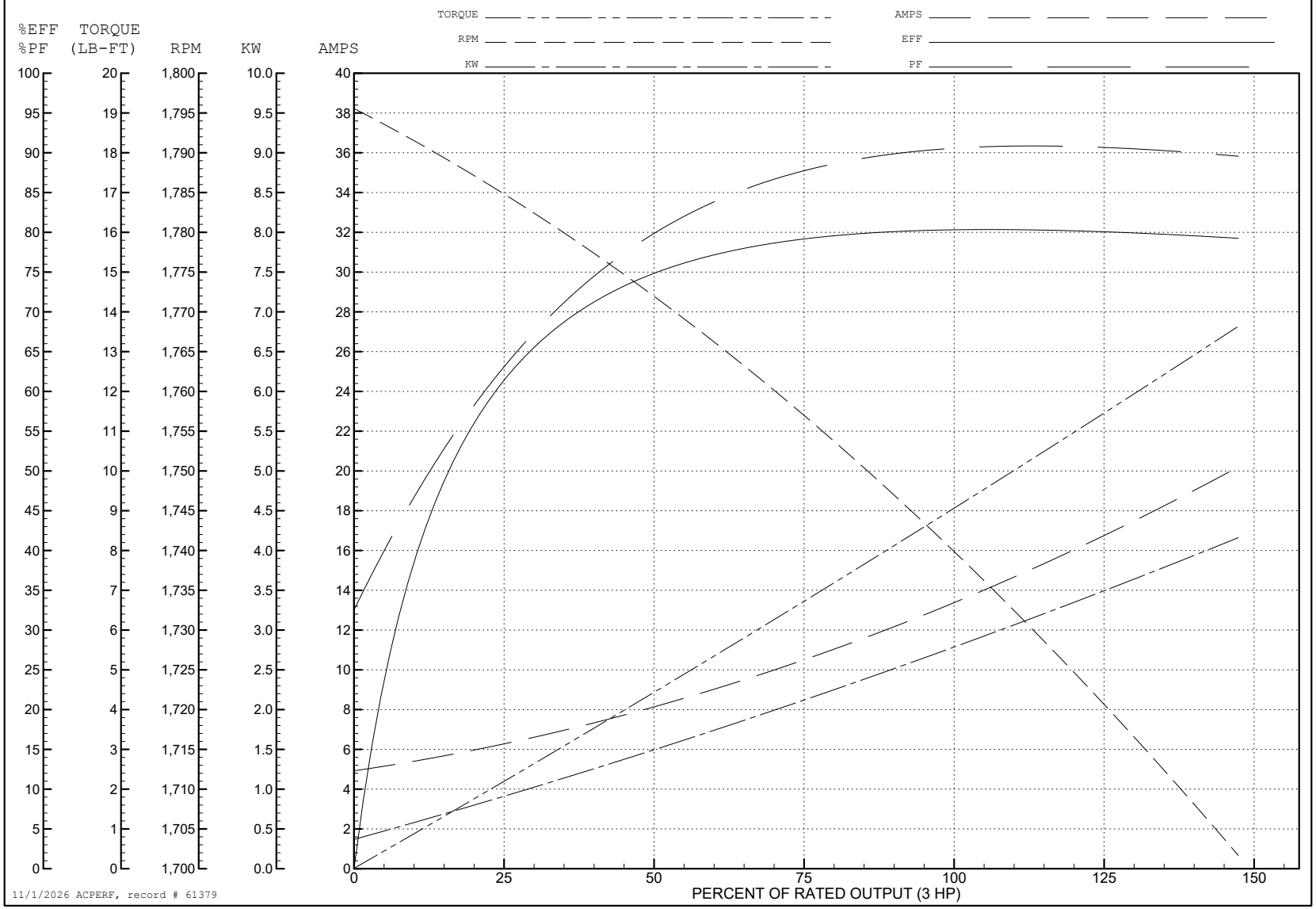
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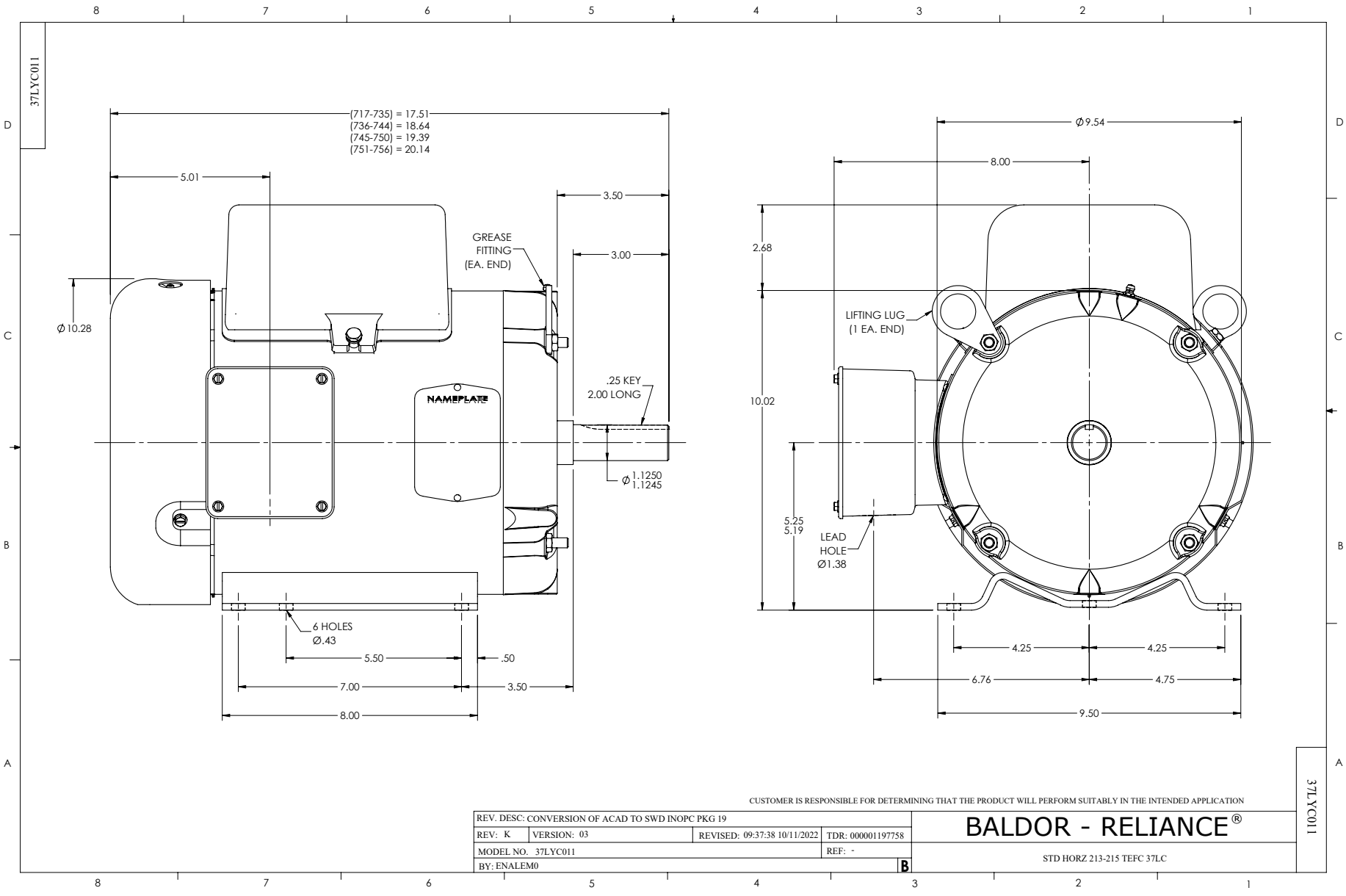
WINDING # 37WGX229

3 HP 1 PH 60 HZ 1725 RPM 230 V 3735LC

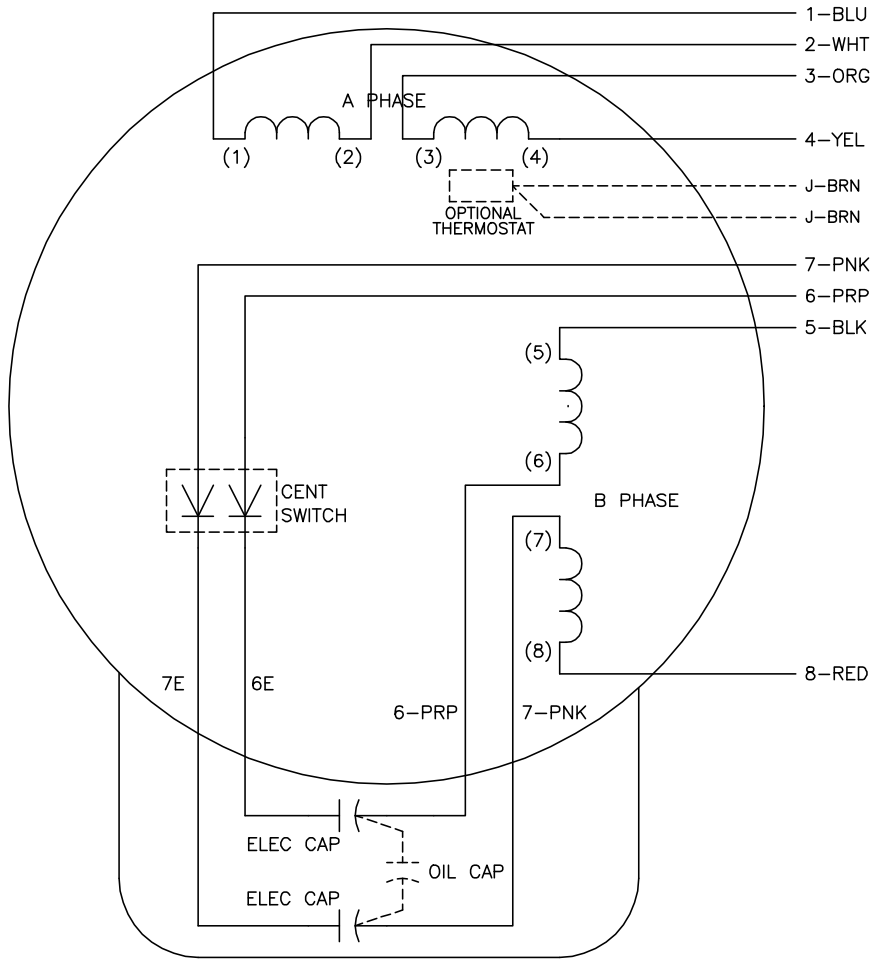
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=24 PU=20 LR=45 LRA=110




37LYC011
(717-735) = 17.51
(736-744) = 18.64
(745-750) = 19.39
(751-756) = 20.14
5.01
3.50
3.00
GREASE FITTING (EA. END)
Ø10.28
NAMEPLATE
.25 KEY
2.00 LONG
Ø 1.1250 1.1245
6 HOLES Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.54
8.00
2.68
LIFTING LUG (1 EA. END)
10.02
5.25
5.19
LEAD HOLE Ø1.38
4.25
4.25
6.76
4.75
9.50
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: K
VERSION: 03
REVISED: 09:37:38 10/11/2022
TDR: 000001197758
MODEL NO. 37LYC011
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-215 TEFC 37LC
37LYC011

CD0076



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4,5	2,3	6,7
HIGH OPP	1,5	4,8	2,3	6,7
LOW STD	1,3,6,8	2,4,5,7	–	–
LOW OPP	1,3,5,7	2,4,6,8	–	–

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. OPTIONAL OIL CAP(S) ARE PROVIDED WHEN SPECIFIED. MULTIPLE OIL CAPS ARE CONNECTED IN PARALLEL.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADD OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	VERSION: 01	TDR: 000000372126	
CD0076	FILE: \AAA\00007\419	REVISED: 15:44:39 09/28/2005	TYPE L OR LC, DV, REV, SERIES/PAR B PH, 8 LEAD
	MTL: –	BY: ENJOEP0	

CD0076