ABB BALDOR RELIANCE

Customer information packet

JPL1509T

7.5HP, 3450RPM, 1PH, 60HZ, 213JP, 3729L, OPEN
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	213JP
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 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	37.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	81.0 %
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	37.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AY
Type	AC
Mech. spec.	37E285
Base	
Status	PRD/A
Elec. spec.	37WGX077
Layout	37LYE285
Eff. date	05-10-2024
CD Diagram	CD0017A01
Poles	02
Leads	2#8 A PH,2#14 B PH
Proprietary	False
Created date	01-01-0001

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 8 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3729L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.07 IN
Power Factor	82
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	1.250 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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.	JPL1509T								
SPEC.	37E285X77								
HP	7.5								
VOLTS	230								
AMP	37								
RPM	3450								
FRAME	213JP		**HZ**	60			**PH**	1	
SER.F.	1.15	**CODE**	G	**DES**	L	**CLASS**		F	
NEMA-NOM-EFF	81	**PF**	82						
RATING	40C AMB-CONT								
CC									
DE	6309		**ODE**	6206					
ENCL	OPEN	**SN**							

Parts List

Part number	Description	Quantity
SA030740	SA 37E285X77	1.000 ea
RA026779	RA 37E285X77	1.000 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
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
37EP3203D00	MASTER,ODE,206 BRG,GREASER,RELIEF	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	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
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
SP1008A01	BAFFLE, MODEL 36 & 37	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 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
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	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
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
37AD2000A02	BAFFLE PLATE, STAMPED PLATED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
HA1222	RODENT SCREEN - 37 C-FACE MOTORS	4.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW1000A10	#10 FLAT WASHER (SAE)	4.000 ea
10XN2520A36	1/4-20X 2 1/4 HEX HD X	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 ea

85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
SP5172A01	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
37CB5006A01	CAPACITOR BOX KIT, 37CB3802, 2 EC1216C0	1.000 ea
HA3104A39	THRUBOLT-5/16-18 X 12.250	4.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
PK3085X	FOAM SHAFT SUPPORT PRECUT 4-1/4 X 6-3/4	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000004	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 61303
Typical performance - not guaranteed values

Winding: 37WGX077-R004	**Type:** 3729L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	11.3 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			37	**Breakdown Torque**	31 LB-FT
R.P.M.			3450	**Pull-up Torque**	17 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	18 LB-FT
NEMA Design Code	L	**KVA Code**	G	**Starting Current**	205 A
Service Factor (S.F.)			1.15	**No-load Current**	19.5 A
NEMA Nom. Eff.	81	**Power Factor**	82	**Line-line Res. @ 25ºC**	0.23 Ω A Ph 0.799 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C

Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	46	65	76	82	85	87	84
Efficiency	61.3	73.9	78.2	79.5	79.3	78.1	79.4
Speed	3574	3552	3528	3502	3472	3438	3484
Line amperes	21.6	25.5	30.1	37.4	45	53.7	42

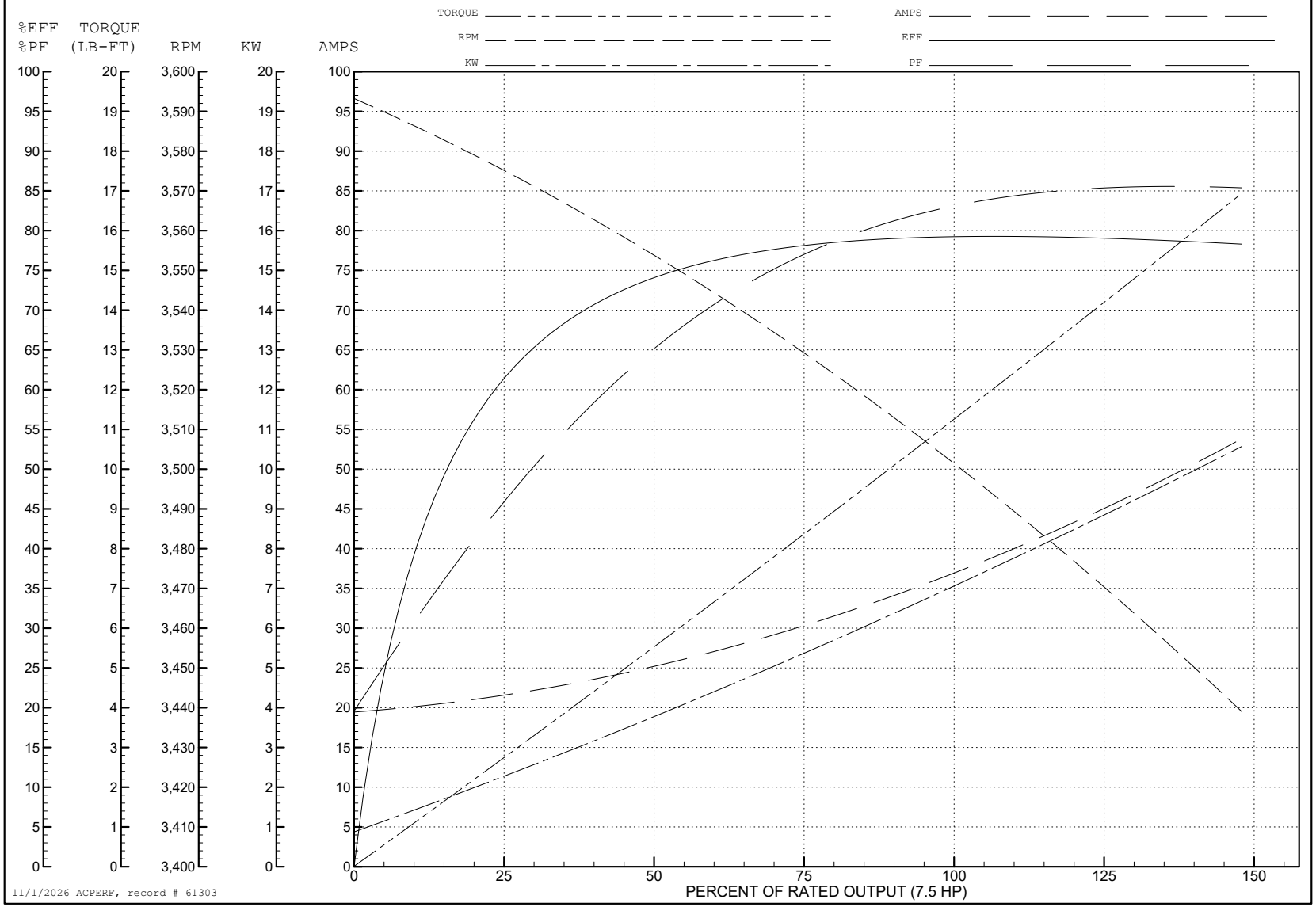
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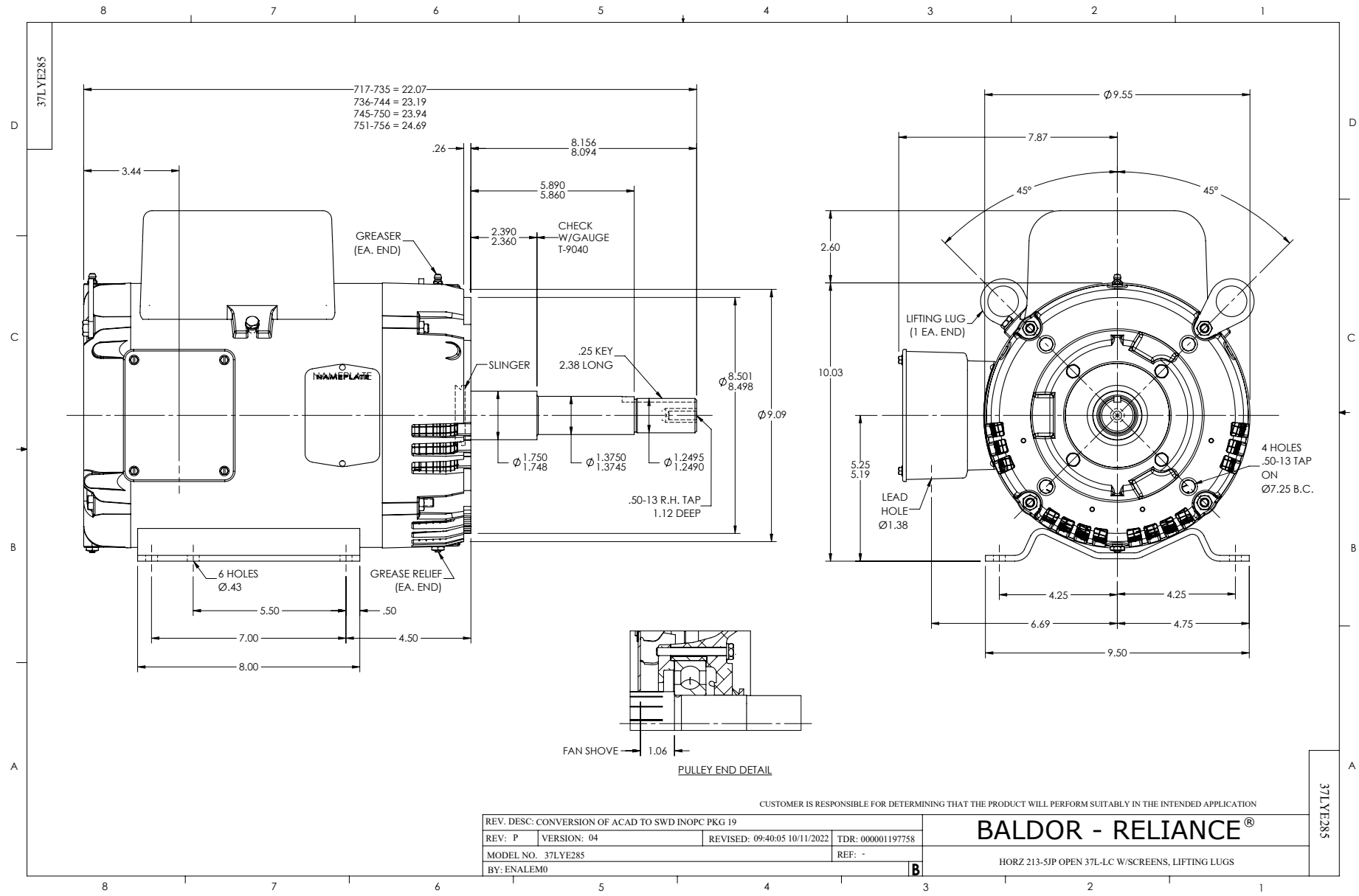
WINDING # 37WGX077

7.5 HP 1 PH 60 HZ 3450 RPM 230 V 3729L

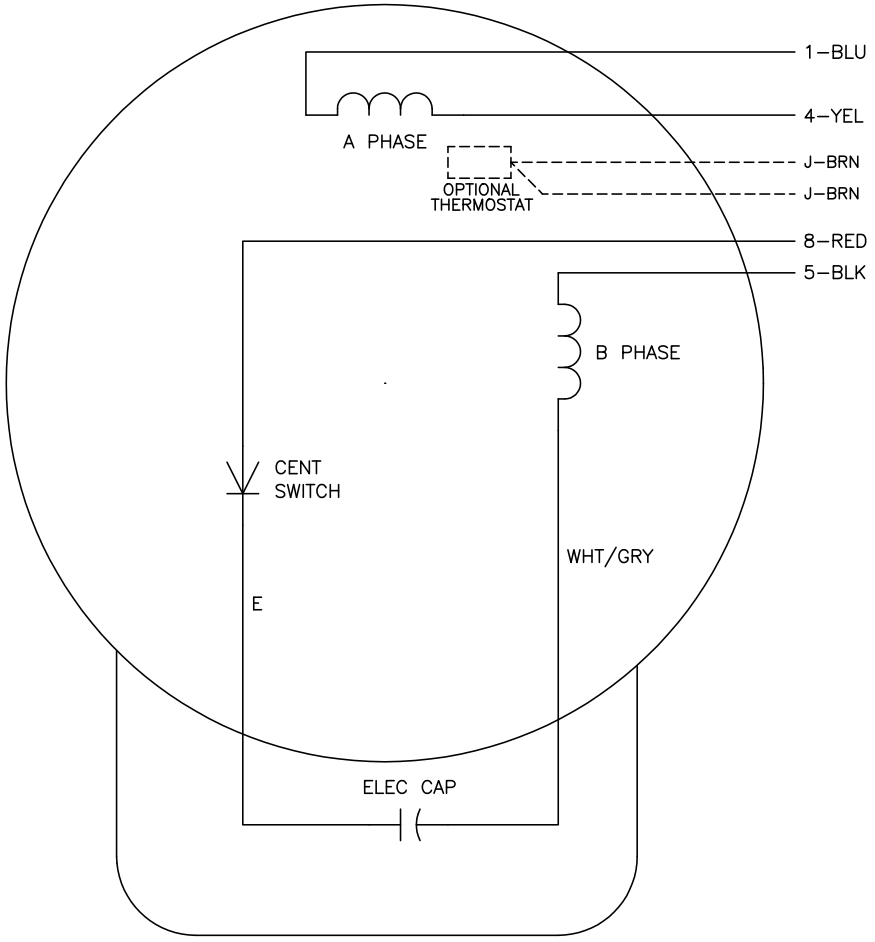
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=31 PU=17 LR=18 LRA=205




37LYE285
717-735 = 22.07
736-744 = 23.19
745-750 = 23.94
751-756 = 24.69
.26
8.156
8.094
3.44
5.890
5.860
GREASER
(EA. END)
2.390
2.360
CHECK
W/GAUGE
T-9040
.25 KEY
2.38 LONG
SLINGER
NAMEPLATE
Ø8.501
8.498
Ø9.09
Ø1.750
1.748
Ø1.3750
1.3745
Ø1.2495
1.2490
.50-13 R.H. TAP
1.12 DEEP
6 HOLES
Ø.43
GREASE RELIEF
(EA. END)
5.50
.50
7.00
4.50
8.00
Ø9.55
7.87
45°
45°
2.60
LIFTING LUG
(1 EA. END)
10.03
5.25
5.19
LEAD
HOLE
Ø1.38
4 HOLES
.50-13 TAP
ON
Ø7.25 B.C.
4.25
4.25
6.69
4.75
9.50
FAN SHOVE
1.06
PULLEY 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: P
VERSION: 04
REVISED: 09:40:05 10/11/2022
TDR: 000001197758
MODEL NO. 37LYE285
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 213-5JP OPEN 37L-LC W/SCREENS, LIFTING LUGS
37LYE285

CD0017A01



	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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0017A01

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/08/99 1:18	TDR: 0178636
CD0017A01		FILE: AAA00007513	MDL: –
		MTL: –	TYPE L, SV, REV, 4 LEADS