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**							

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

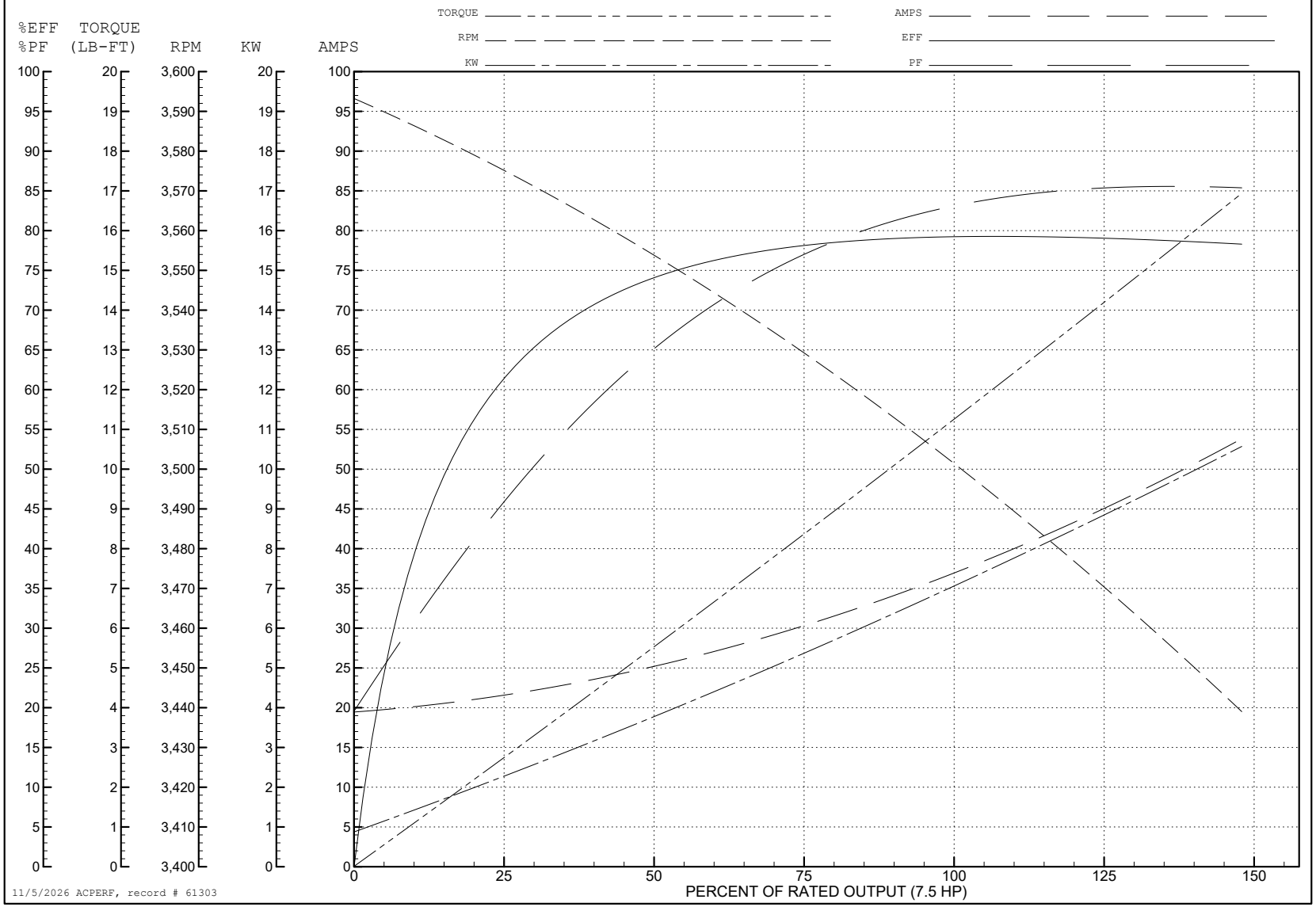
ABB Motors and Mechanical Inc.

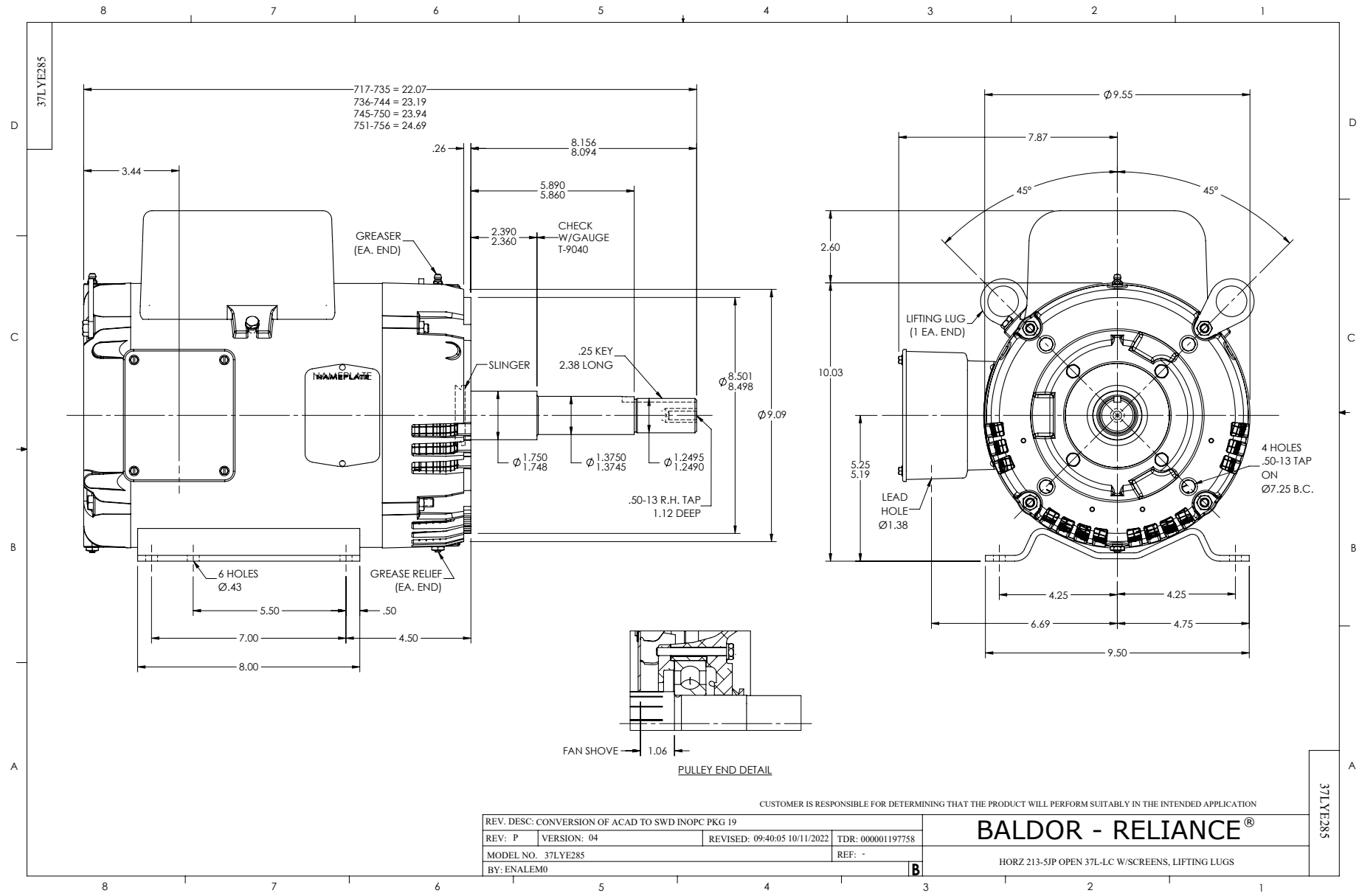
WINDING # 37WGX077

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

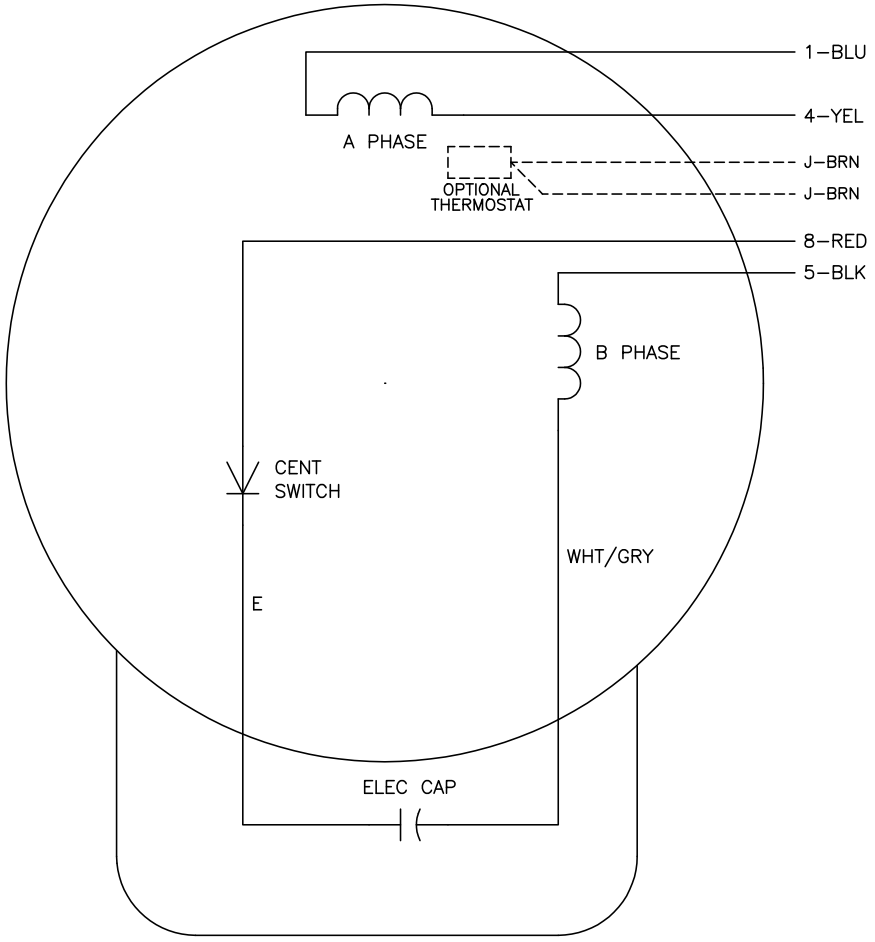
Typical performance - not guaranteed values.

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