ABB BALDOR RELIANCE

Customer information packet

WCL1509T

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

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Specifications

Enclosure	OPEN
Frame	213TCZ
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	C UR US
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	B
Inverter Code	Not Inverter
KVA Code	G

Part Detail

Revision	AX
Type	AC
Mech. spec.	37E284
Base	
Status	PRD/A
Elec. spec.	37WGX077
Layout	37LYE284
Eff. date	06-09-2025
CD Diagram	CD0017A01
Poles	02
Leads	2#8 A PH,2#14 B PH
Proprietary	False
Created date	01-01-0001

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	21.25 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	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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.	WCL1509T								
SPEC.	37E284X77								
HP	7.5								
VOLTS	230								
AMP	37								
RPM	3450								
FRAME	213TCZ	**HZ**	60			**PH**	1		
SER.F.	1.15	**CODE**	G	**DES**	L	**CLASS**	B		
NEMA-NOM-EFF	81	**PF**	82						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6206						
ENCL	OPEN	**SN**							

AC Induction Motor Performance Data
Record # 11980
Typical performance - not guaranteed values

Winding: 37WGX077-R001	**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	0
Efficiency	61.3	73.9	78.2	79.5	79.3	78.1	0
Speed	3574	3552	3528	3502	3472	3438	0
Line amperes	21.6	25.5	30.1	37.4	45	53.7	42

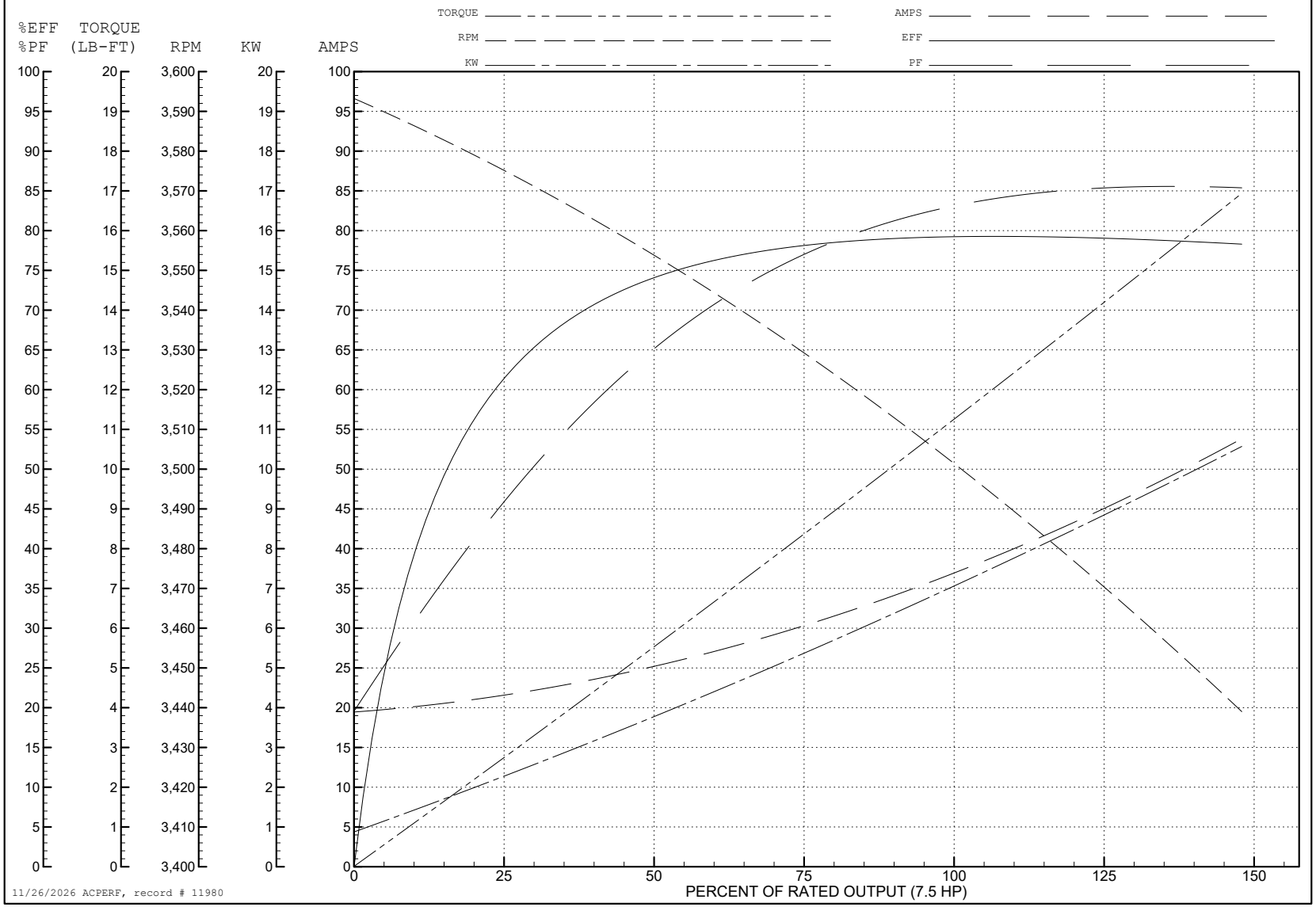
ABB Motors and Mechanical Inc.

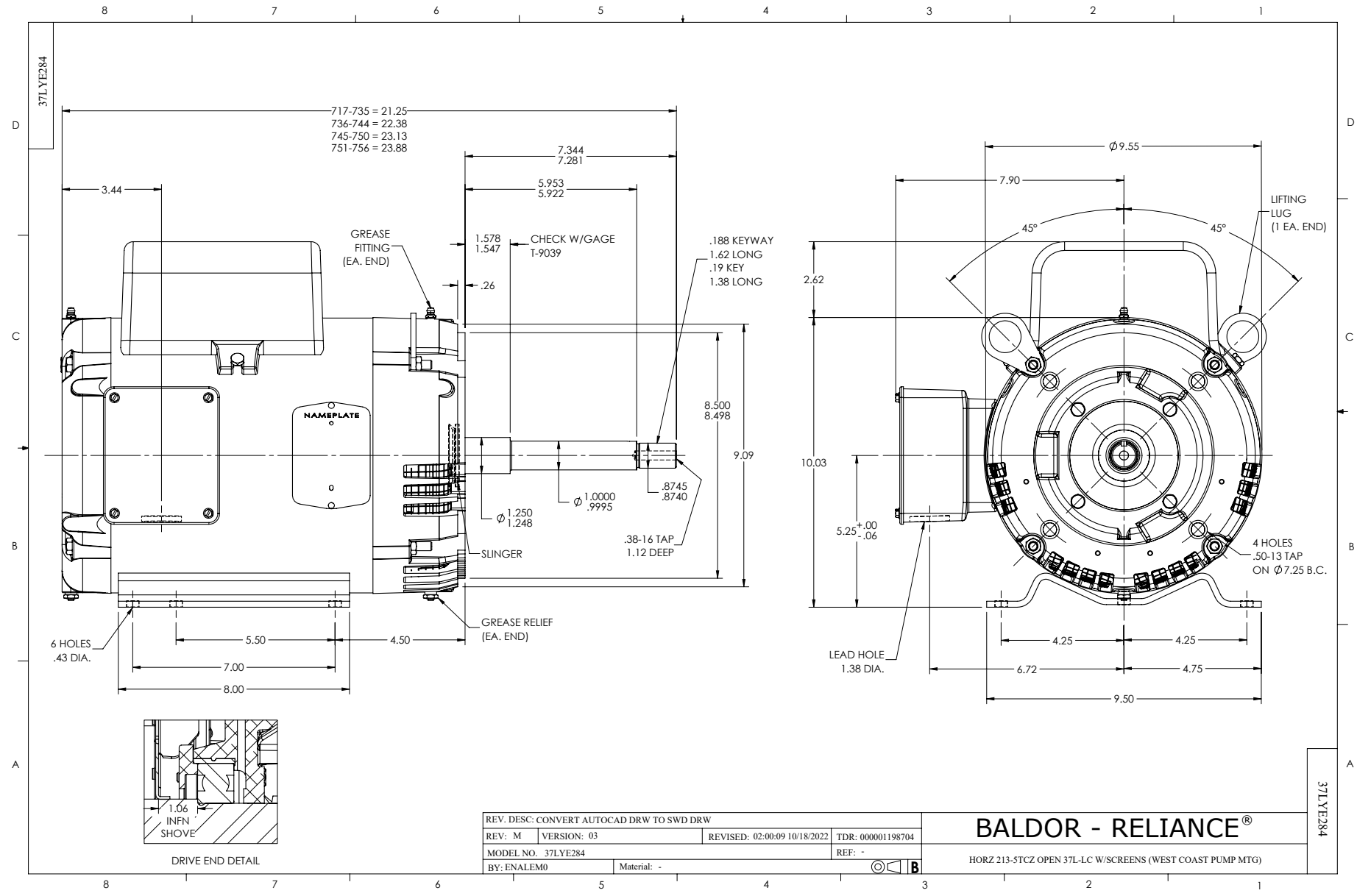
WINDING # 37WGX077

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

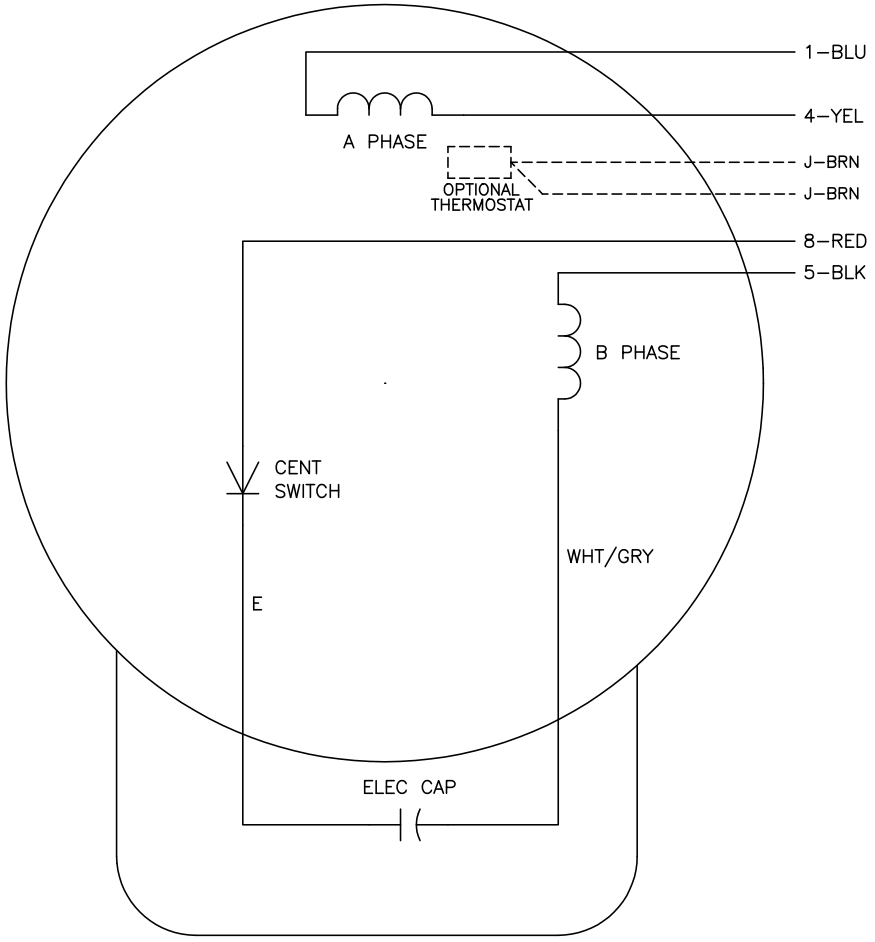
Typical performance - not guaranteed values.

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




37LYE284
717-735 = 21.25
736-744 = 22.38
745-750 = 23.13
751-756 = 23.88
7.344
7.281
5.953
5.922
3.44
GREASE FITTING (EA. END)
1.578
1.547
CHECK W/GAGE T-9039
.26
.188 KEYWAY
1.62 LONG
.19 KEY
1.38 LONG
NAMEPLATE
8.500
8.498
9.09
Ø 1.250
1.248
Ø 1.0000
.9995
.8745
.8740
.38-16 TAP
1.12 DEEP
SLINGER
GREASE RELIEF (EA. END)
6 HOLES
.43 DIA.
5.50
4.50
7.00
8.00
1.06
INFN
SHOVE
DRIVE END DETAIL
Ø 9.55
7.90
45°
45°
LIFTING LUG (1 EA. END)
2.62
10.03
5.25 +.00 -.06
4 HOLES
.50-13 TAP
ON Ø 7.25 B.C.
LEAD HOLE
1.38 DIA.
4.25
4.25
6.72
4.75
9.50
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: M
VERSION: 03
REVISED: 02:00:09 10/18/2022
TDR: 000001198704
MODEL NO. 37LYE284
REF: -
BY: ENALEM0
Material: -
B
BALDOR - RELIANCE®
HORZ 213-5TCZ OPEN 37L-LC W/SCREENS (WEST COAST PUMP MTG)
37LYE284

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