ABB BALDOR RELIANCE

Customer information packet

CXL21342

3HP, 1735RPM, 1PH, 60HZ, 215C, 3740L, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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Specifications

Enclosure	XPFC
Frame	215C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction 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
	UL
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	17.200 A @ 230.0 V
	34.400 A @ 115.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.2 a
Insulation Class	F

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGA0037
Layout	37LY-000-351
Eff. date	08-04-2026
CD Diagram	CD0076
Poles	04
Leads	8#14
Proprietary	False
Created date	04-07-2021

IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.59 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1426XPSL							
NO.		**CC**					
SER.							
SPEC.	37-0000-0351						
CAT.NO.	CXL21342						
HP	3	**T. CODE**	T3C				
VOLTS	115/230						
AMPS	34.4/17.2						
RPM	1750						
HZ	60	**PH**	1	**CL**	F		
SER.F.	1.15	**DES**	-	**CODE**	K		
RATING	40C AMB-CONT						
FRAME	215C	**NEMA-NOM-EFF**	78.5				
		PF	71				
BLANK	NEMA MG-1 PART 5, IP54						

AC Induction Motor Performance Data
Record # 99433
Typical performance - not guaranteed values

Winding: 37WGA0037-R001	**Type:** 3740L	**Enclosure:** XPFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	8.992 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			34.4/17.2	**Breakdown Torque**	33.1 LB-FT
R.P.M.			1750	**Pull-up Torque**	20 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	31.8 LB-FT
NEMA Design Code	-	**KVA Code**	K	**Starting Current**	112.95 A
Service Factor (S.F.)			1.15	**No-load Current**	10.5 A
NEMA Nom. Eff.	78.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	0.38356 Ω A Ph 2.2154 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps			38/19	**Temp. Rise @ S.F. Load**	72°C

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	51	63	71	76	79	74
Efficiency	64.7	76.2	79.4	79.8	79.2	77.6	79.4
Speed	1787.7	1775.8	1762.6	1749.1	1732.4	1713	1739
Line amperes	11.1	12.5	14.6	17.1	20.2	23.7	19

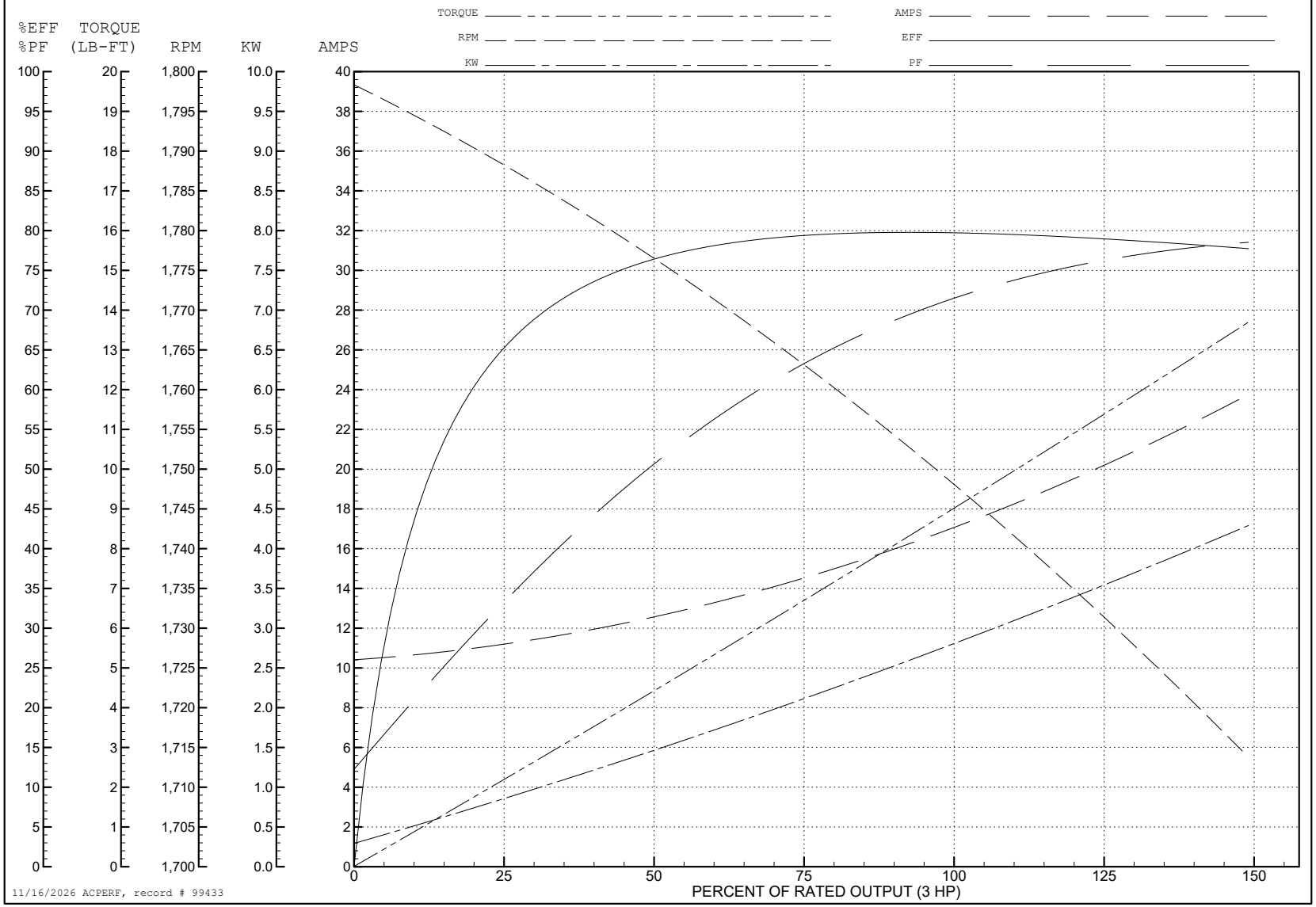
ABB Motors and Mechanical Inc.

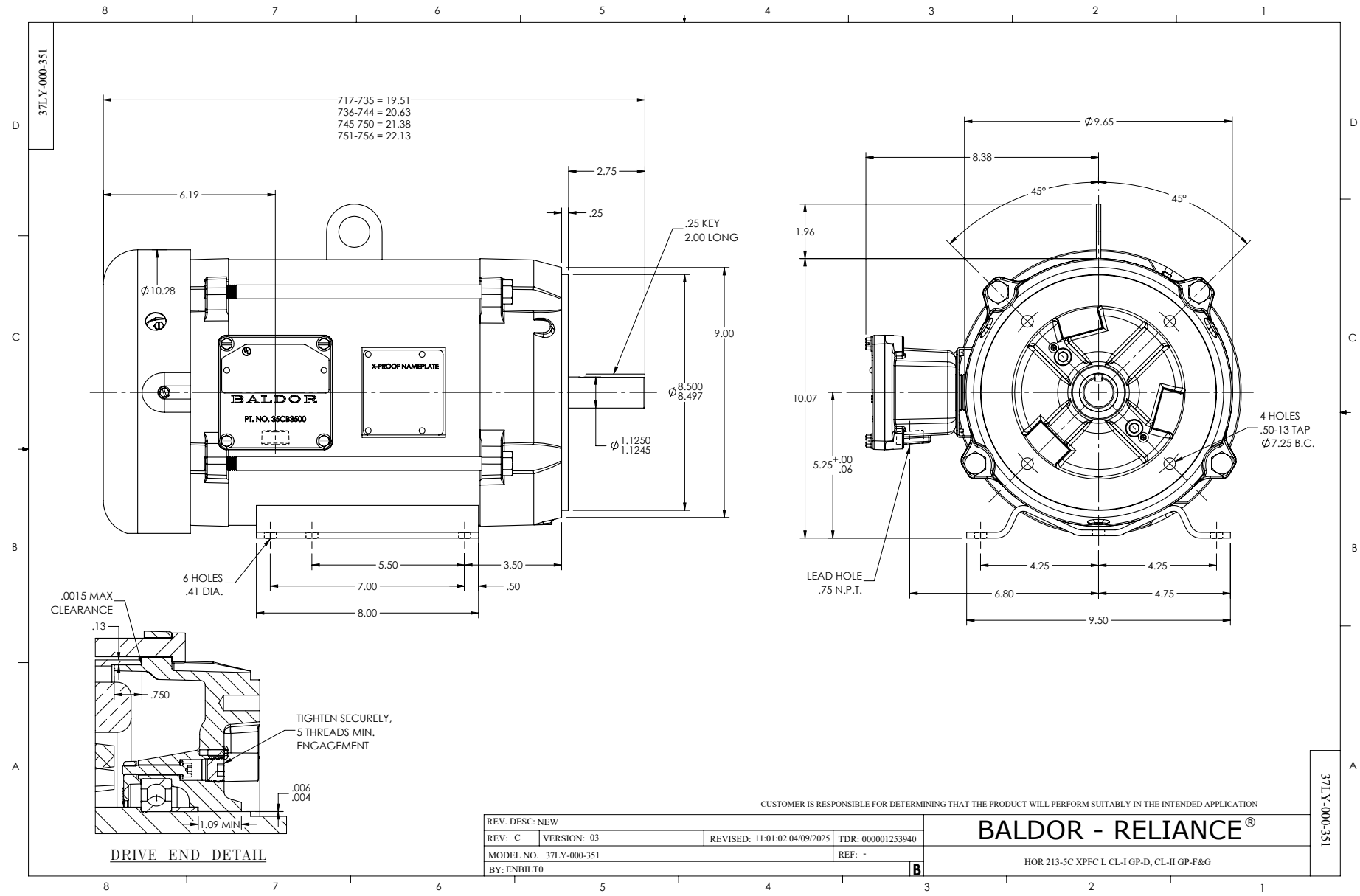
WINDING # 37WGA0037

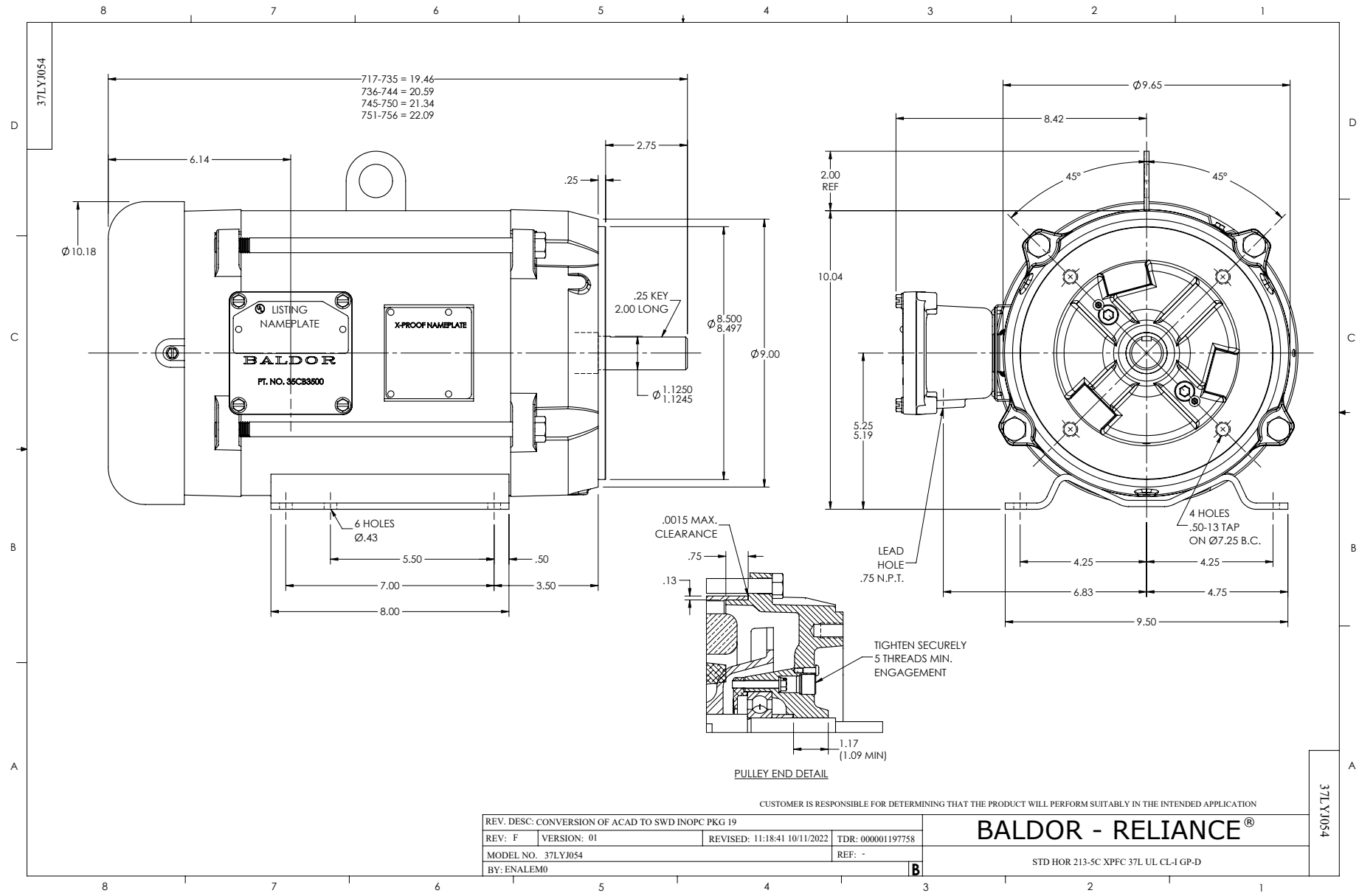
3 HP 1 PH 60 HZ 1750 RPM 230 V 3740L

Typical performance - not guaranteed values.

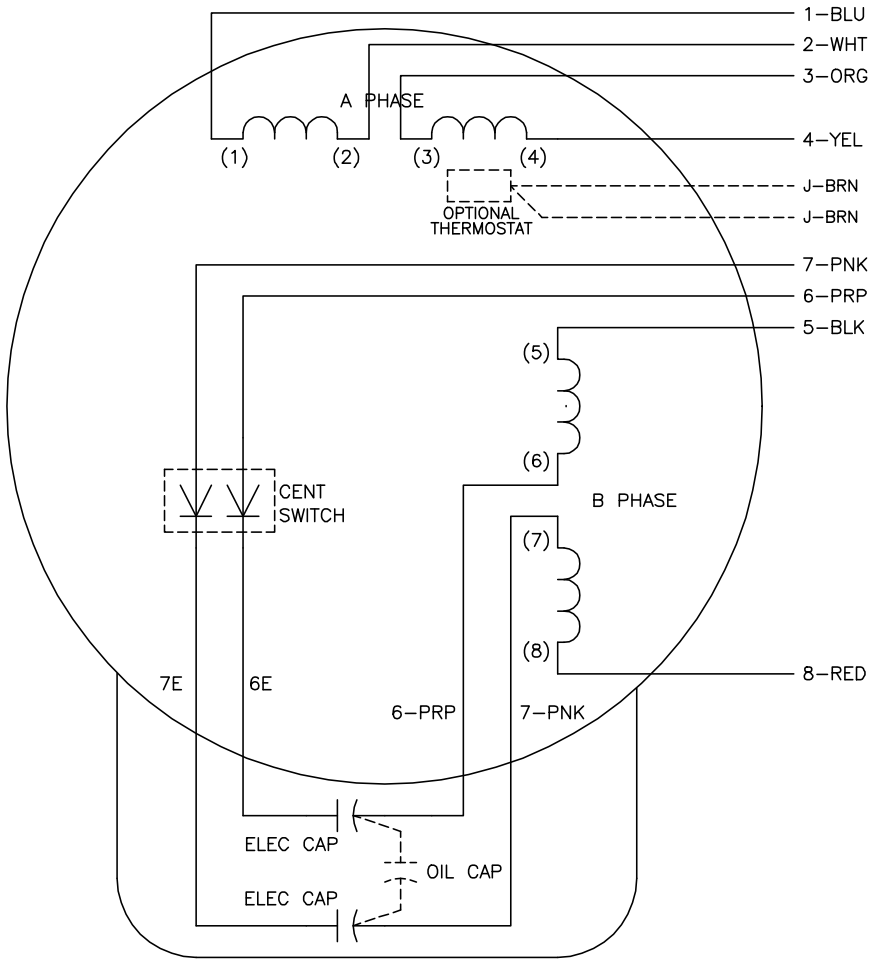
TORQUES(LB-FT): PO=33.1 PU=20 LR=31.8 LRA=112.95




37LY-000-351
717-735 = 19.51
736-744 = 20.63
745-750 = 21.38
751-756 = 22.13
6.19
2.75
.25
.25 KEY
2.00 LONG
Ø10.28
9.00
Ø8.500
8.497
Ø1.1250
1.1245
BALDOR
PT. NO. 35CB3500
X-PROOF NAMEPLATE
6 HOLES
.41 DIA.
5.50
3.50
7.00
.50
8.00
Ø9.65
8.38
45°
45°
1.96
10.07
5.25 +.00 -.06
4 HOLES
.50-13 TAP
Ø7.25 B.C.
LEAD HOLE
.75 N.P.T.
4.25
4.25
6.80
4.75
9.50
.0015 MAX
CLEARANCE
.13
.750
TIGHTEN SECURELY,
5 THREADS MIN.
ENGAGEMENT
.006
.004
1.09 MIN
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: C
VERSION: 03
REVISED: 11:01:02 04/09/2025
TDR: 000001253940
MODEL NO. 37LY-000-351
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HOR 213-5C XPFC L CL-I GP-D, CL-II GP-F&G
37LY-000-351


37LYJ054
717-735 = 19.46
736-744 = 20.59
745-750 = 21.34
751-756 = 22.09
6.14
2.75
.25
Ø10.18
LISTING NAMEPLATE
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
.25 KEY
2.00 LONG
Ø8.500
8.497
Ø9.00
Ø1.1250
1.1245
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.65
8.42
2.00
REF
45°
45°
10.04
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
4.25
4.25
6.83
4.75
9.50
.0015 MAX.
CLEARANCE
.75
.13
TIGHTEN SECURELY
5 THREADS MIN.
ENGAGEMENT
1.17
(1.09 MIN)
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: F
VERSION: 01
REVISED: 11:18:41 10/11/2022
TDR: 000001197758
MODEL NO. 37LYJ054
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HOR 213-5C XPFC 37L UL CL-I GP-D
37LYJ054

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