ABB BALDOR RELIANCE

Customer information packet

CL5020

5HP, 1725RPM, 1PH, 60HZ, 215C, 3744LC, XPFC, F1
Class - CLI GP D
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
Haz Area Division	Division I
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
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	21.000 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	21.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J

Part Detail

Revision	J
Type	AC
Mech. spec.	37J054
Base	
Status	PRD/A
Elec. spec.	37WGR623
Layout	37LYJ054
Eff. date	10-09-2024
CD Diagram	CD0017A02
Poles	04
Leads	2#12 A PH,2#14 B PH
Proprietary	False
Created date	12-20-2017

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 12 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3744LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.69 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
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	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0015XPSL						
NO.		**CC**				
SER. #						
SPEC	37J054R623G1					
CAT.NO.	CL5020					
H.P.	5	**T. CODE**	T2C			
VOLTS	230					
AMPS	21					
R.P.M.	1725					
HZ	60	**PH**	1	**CLASS**	B	
SER.F.	1.00	**DES**	-	**CODE**	J	
RATING	40C AMB-CONT					
FRAME	215C			**NEMA NOM. EFF**	84	
		PF	92			
BLANK						

AC Induction Motor Performance Data
Record # 45735
Typical performance - not guaranteed values

Winding: 37WGR623-R001	**Type:** 3744LC	**Enclosure:** XPFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15.1 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			21	**Breakdown Torque**	48.98 LB-FT
R.P.M.			1725	**Pull-up Torque**	22.34 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	47.76 LB-FT
NEMA Design Code	-	**KVA Code**	J	**Starting Current**	156.78 A
Service Factor (S.F.)			1	**No-load Current**	5.3 A
NEMA Nom. Eff.	84	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.298 Ω A Ph 2.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	75°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	76	87	91	92	93	92
Efficiency	74.9	84.1	85.7	84.5	82.4	78.9
Speed	1787	1774	1761	1743	1726	1701
Line amperes	7.7	11.6	16.2	21.1	26.7	33

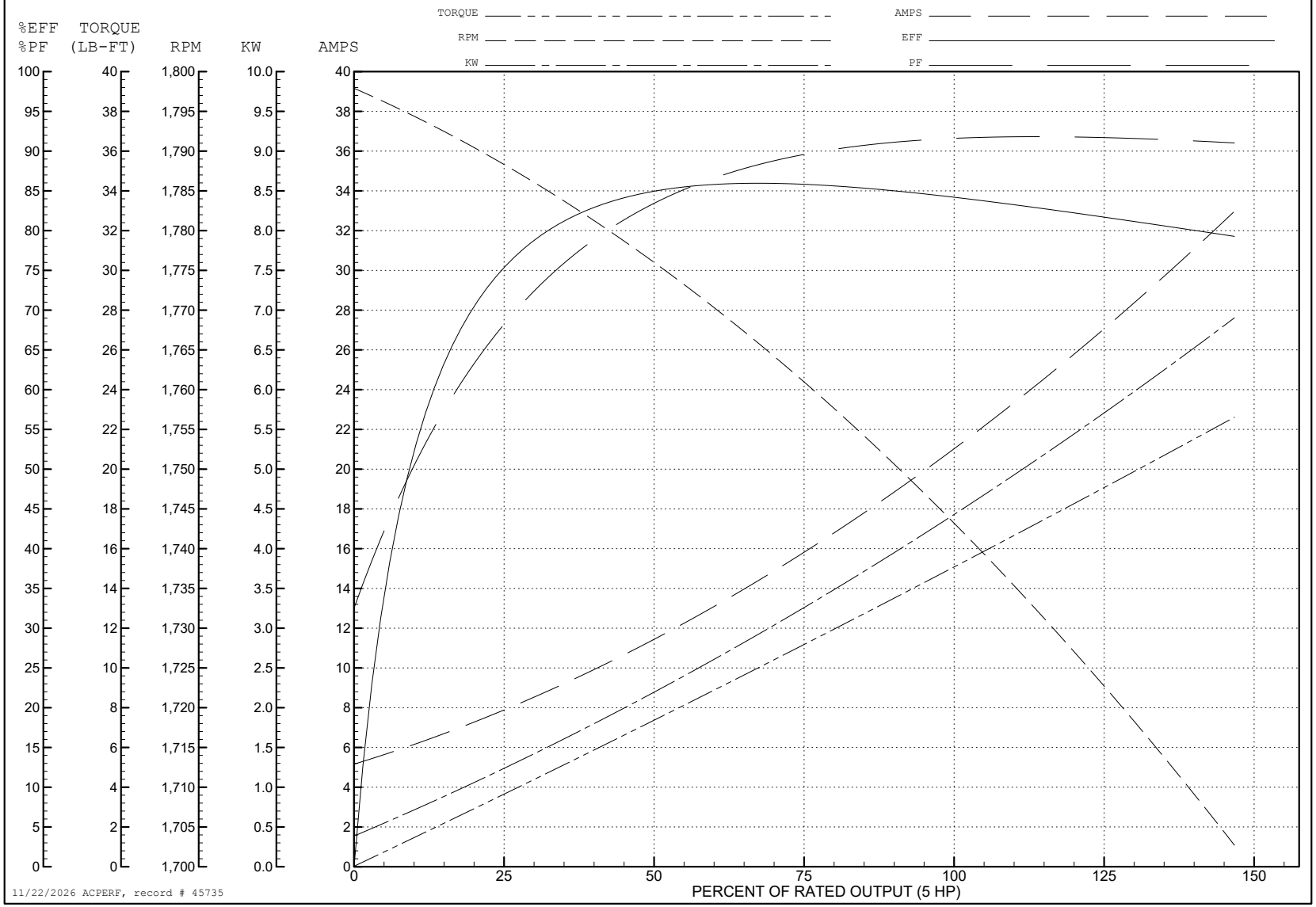
ABB Motors and Mechanical Inc.

WINDING # 37WGR623

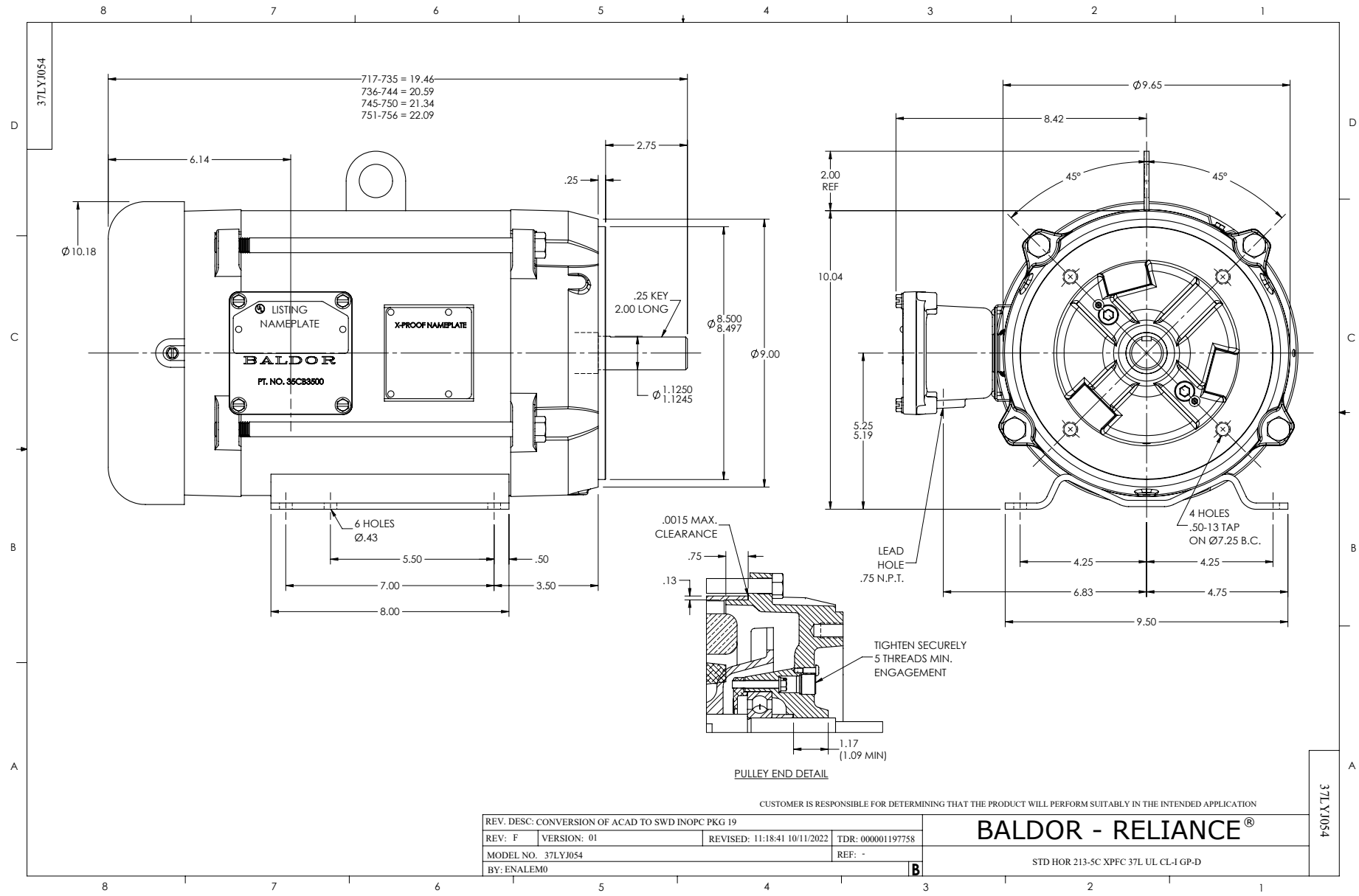
Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3744LC

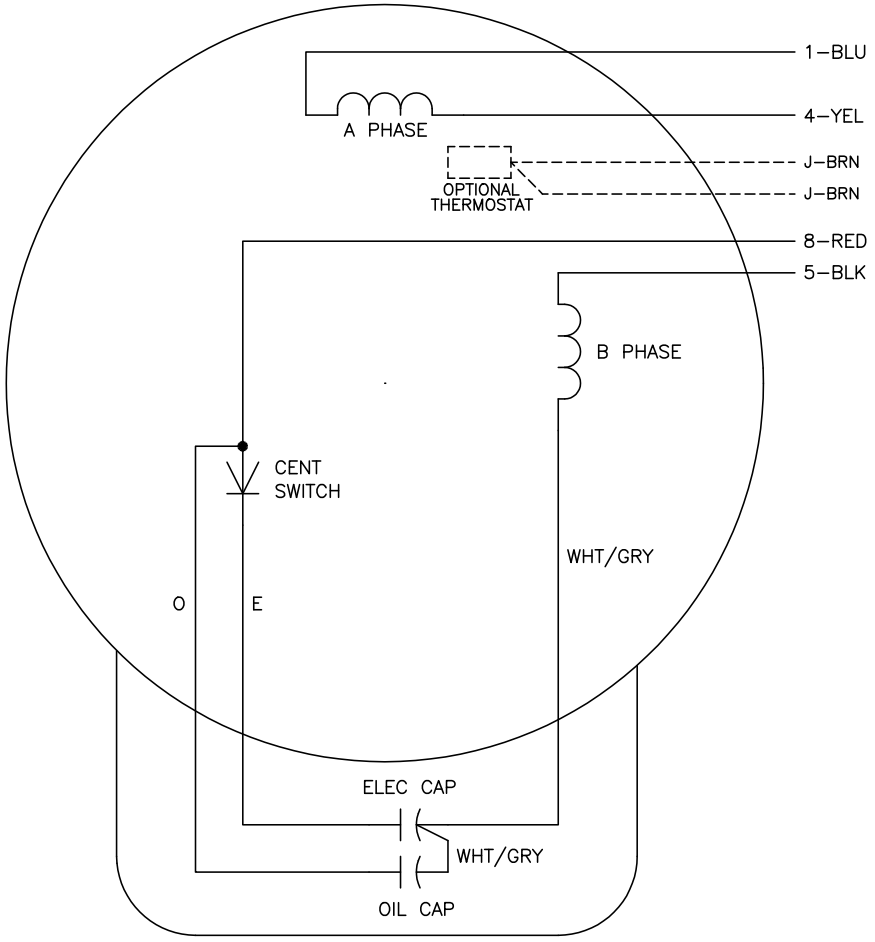
TORQUES(LB-FT): PO=48.98 PU=22.34 LR=47.76 LRA=156.78



11/22/2026 ACPERF, record # 45735


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

CD0017A02



	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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	TYPE LC, SV, REV, 4 LEADS

CD0017A02