

ABB BALDOR RELIANCE III

Customer information packet

CL5020

5HP, 1725RPM, 1PH, 60HZ, 215C, 3744LC, XPFC, F1

Class - CLI GP D

Division - Division I

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		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. @ 25°C		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

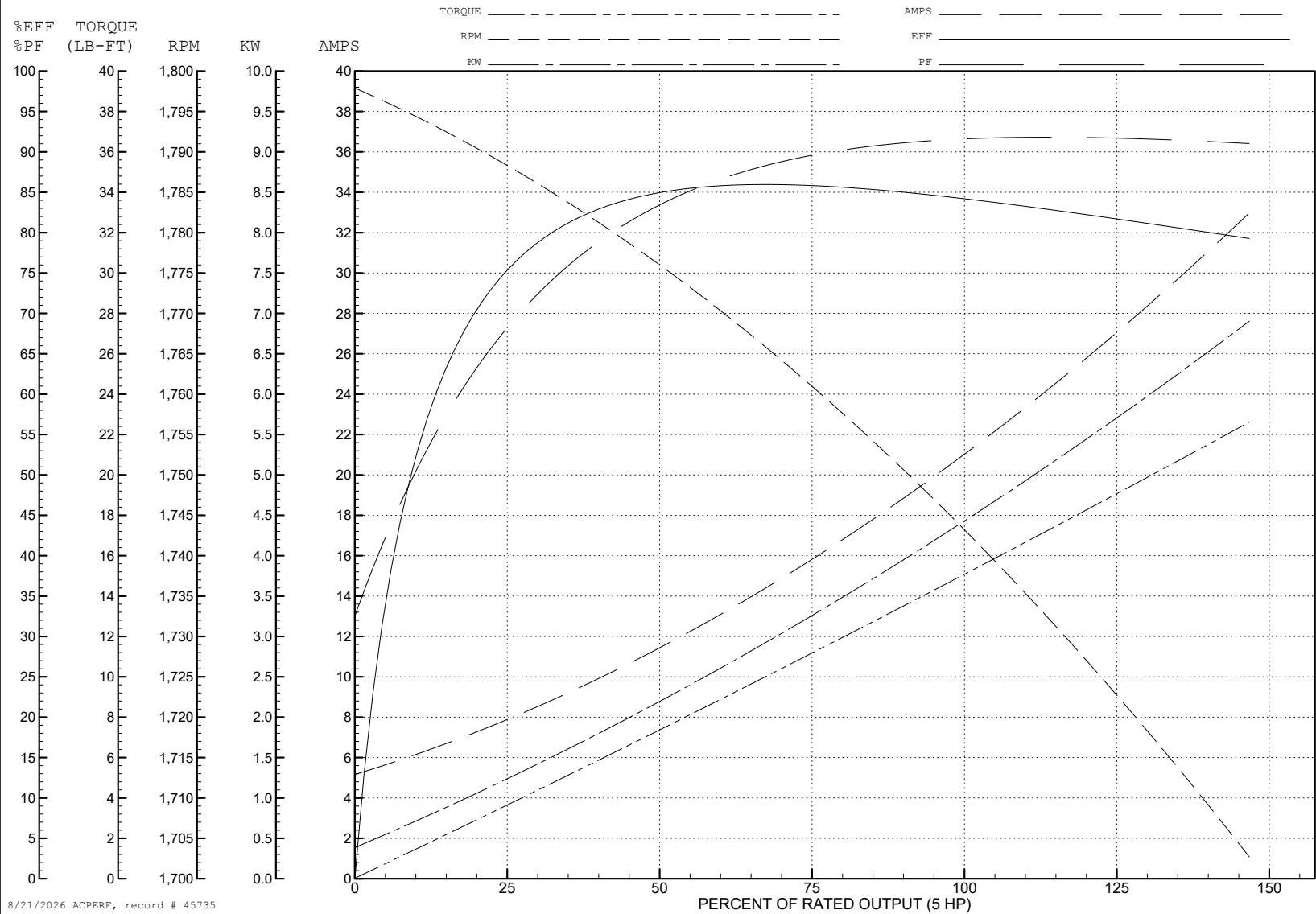
ABB Motors and Mechanical Inc.

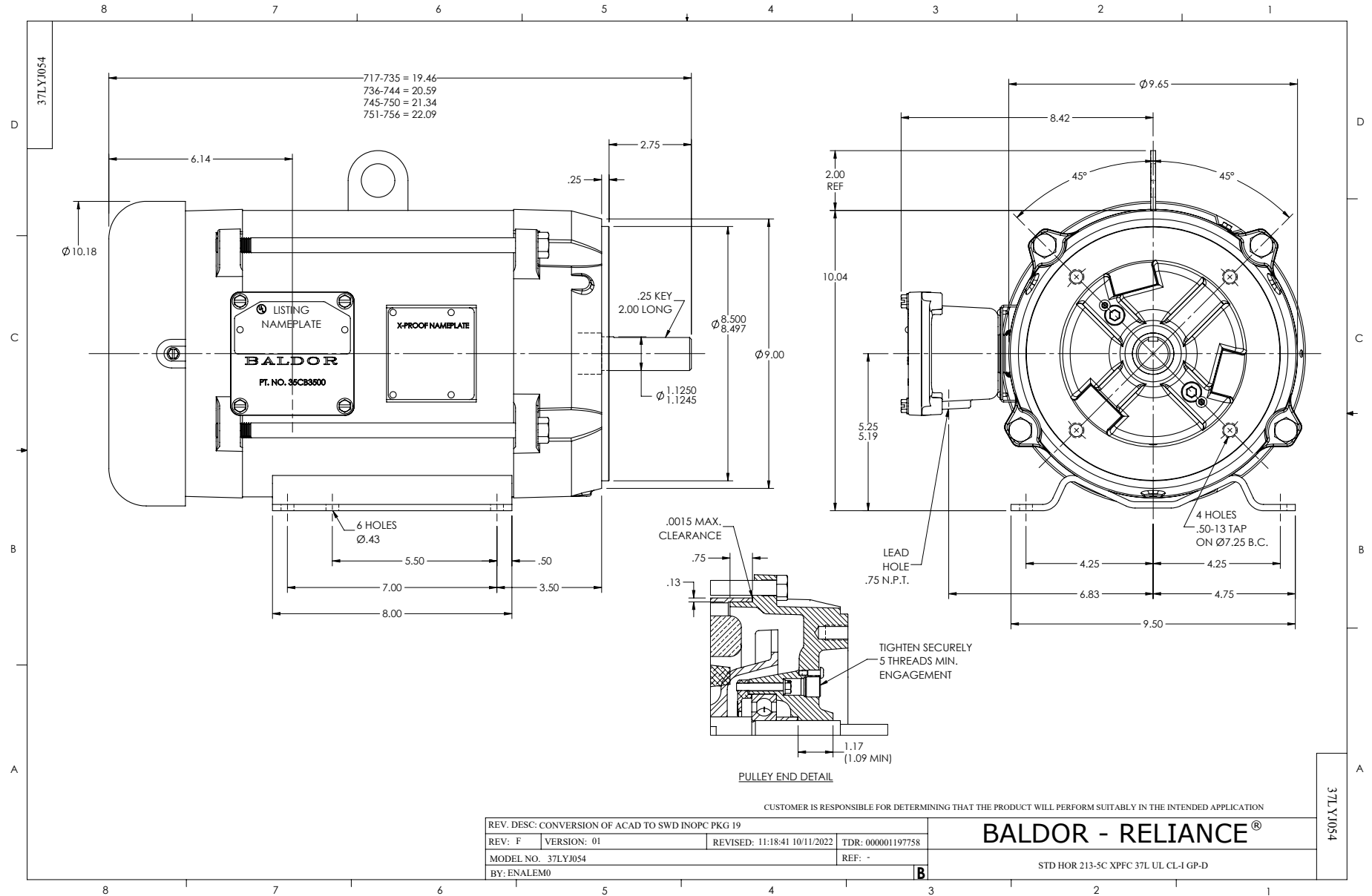
WINDING # 37WGR623

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





CD0017A02

