

ABB BALDOR RELIANCE III

Customer information packet

L5018

3HP, 1750RPM, 1PH, 60HZ, 213, 3732L, XPFC, F1, N

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	213
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	UL 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	16.600 A @ 230.0 V 33.300 A @ 115.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	79.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	16.6 a
Insulation Class	B

Part Detail

Revision	E
Type	AC
Mech. spec.	37J019
Base	
Status	SMP/A
Elec. spec.	37WGZ649
Layout	37LYJ019
Eff. date	05-29-2026
CD Diagram	CD0076
Poles	04
Leads	8#14
Proprietary	False
Created date	11-20-2020

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	8 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3732L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.49 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
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.	37J19Z649								
CAT.NO.	L5018								
HP	3	T. CODE							
VOLTS	115/230								
AMPS	33.3/16.6								
RPM	1750								
HZ	60	PH	1	CL	B				
SER.F.	1.00	DES		L	CODE		H		
RATING	40C AMB-CONT								
FRAME	213	NEMA-NOM-EFF							79
		PF	74						
BLANK									

AC Induction Motor Performance Data

Record # 85552

Typical performance - not guaranteed values

Winding: 37WGZ649-R001			Type: 3732L		Enclosure: XPFC	
Nameplate Data			115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		3	Full Load Torque		9.03 LB-FT	
Volts		115/230	Start Configuration		direct on line	
Full Load Amps		33.3/16.6	Breakdown Torque		22.92 LB-FT	
R.P.M.		1750	Pull-up Torque		16.99 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque		28.86 LB-FT	
NEMA Design Code		L KVA Code	Starting Current		169 A	
Service Factor (S.F.)		1	No-load Current		17.39 A	
NEMA Nom. Eff.		79 Power Factor	Line-line Res. @ 25°C		0.128 Ω A Ph 0.355 Ω B Ph	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		78°C	
			Locked-rotor Power Factor		88.2	
			Rotor inertia		0.787 lb-ft²	

Load Characteristics 115 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	60	71	78	81	84
Efficiency	66.6	75.5	80.1	79.9	77.4	76.7
Speed	1785	1772	1761	1746	1729	1710
Line amperes	18.51	22.03	26.02	31.4	38.43	45.05

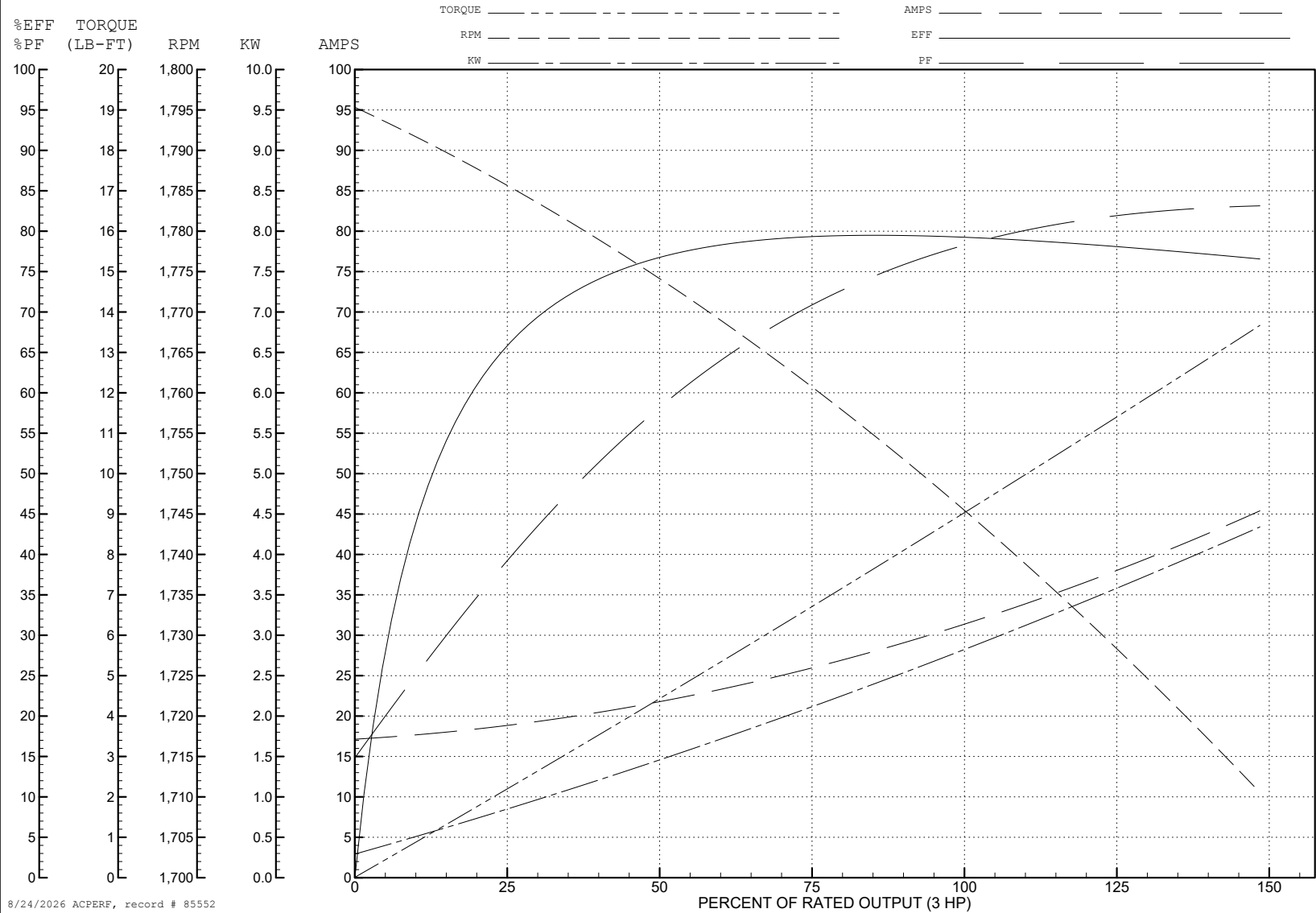
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WINDING # 37WGZ649

Typical performance - not guaranteed values.

3 HP 1 PH 60 HZ 1750 RPM 115 V 3732L

TORQUES (LB-FT) : PO=22.92 PU=16.99 LR=28.86 LRA=169



AC Induction Motor Performance Data

Record # 85553

Typical performance - not guaranteed values

Winding: 37WGZ649-R001			Type: 3732L		Enclosure: XPFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		3	Full Load Torque		9.03 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		33.3/16.6	Breakdown Torque		22.92 LB-FT			
R.P.M.		1750	Pull-up Torque		16.99 LB-FT			
Hz	60 Phase	1	Locked-rotor Torque		28.86 LB-FT			
NEMA Design Code		L	KVA Code	H	Starting Current		84.49 A	
Service Factor (S.F.)		1	No-load Current		8.69 A			
NEMA Nom. Eff.		79	Power Factor		74	Line-line Res. @ 25°C		0.511 Ω A Ph 1.42 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		78°C		
				Locked-rotor Power Factor		88.2		
				Rotor inertia		0.787 lb-ft²		

Load Characteristics 230 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	40	60	71	78	81	84
Efficiency	66.6	75.5	80.1	79.9	77.4	76.7
Speed	1785	1772	1761	1746	1729	1710
Line amperes	9.25	11.01	13.01	15.7	19.21	22.52

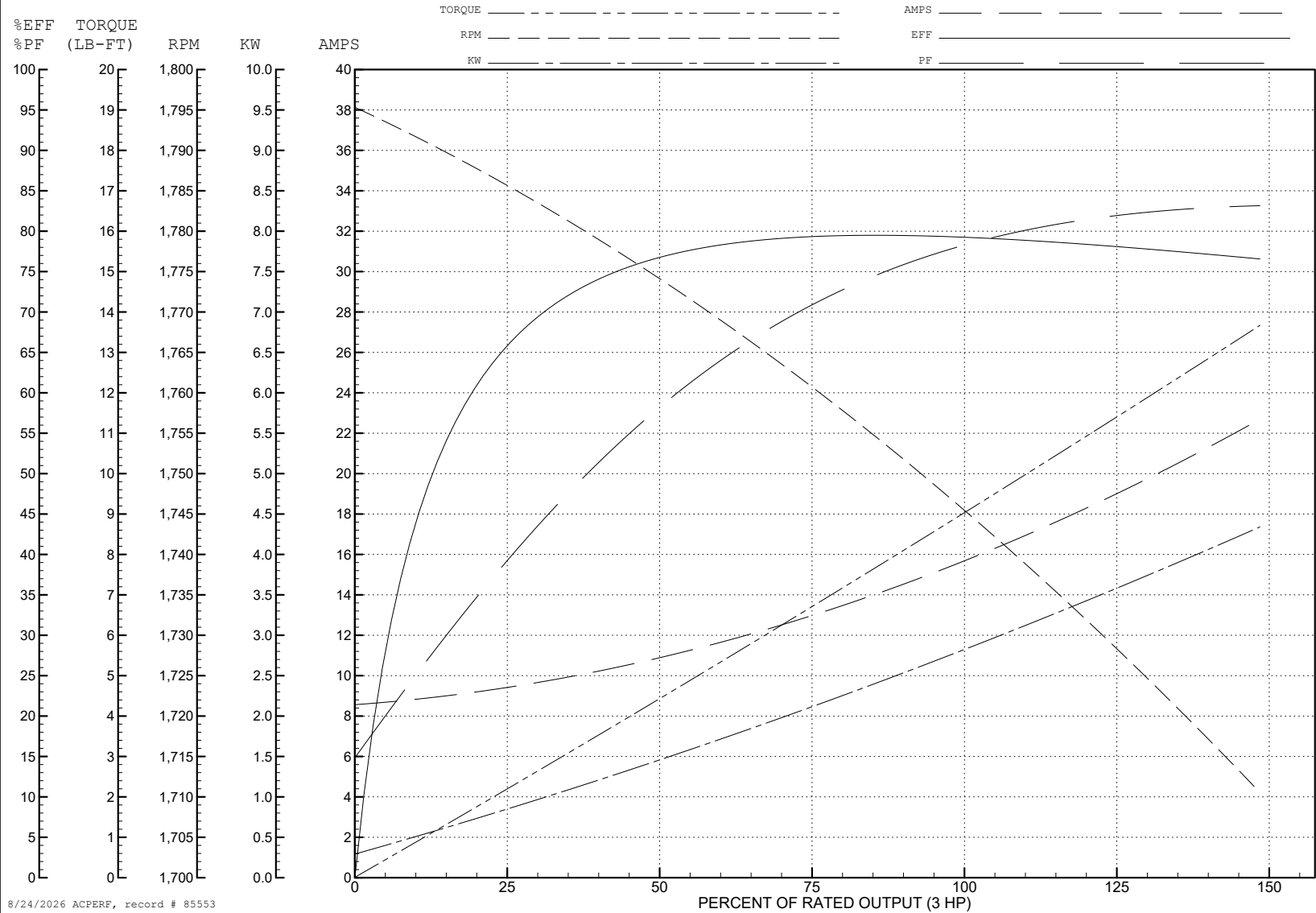
ABB Motors and Mechanical Inc.

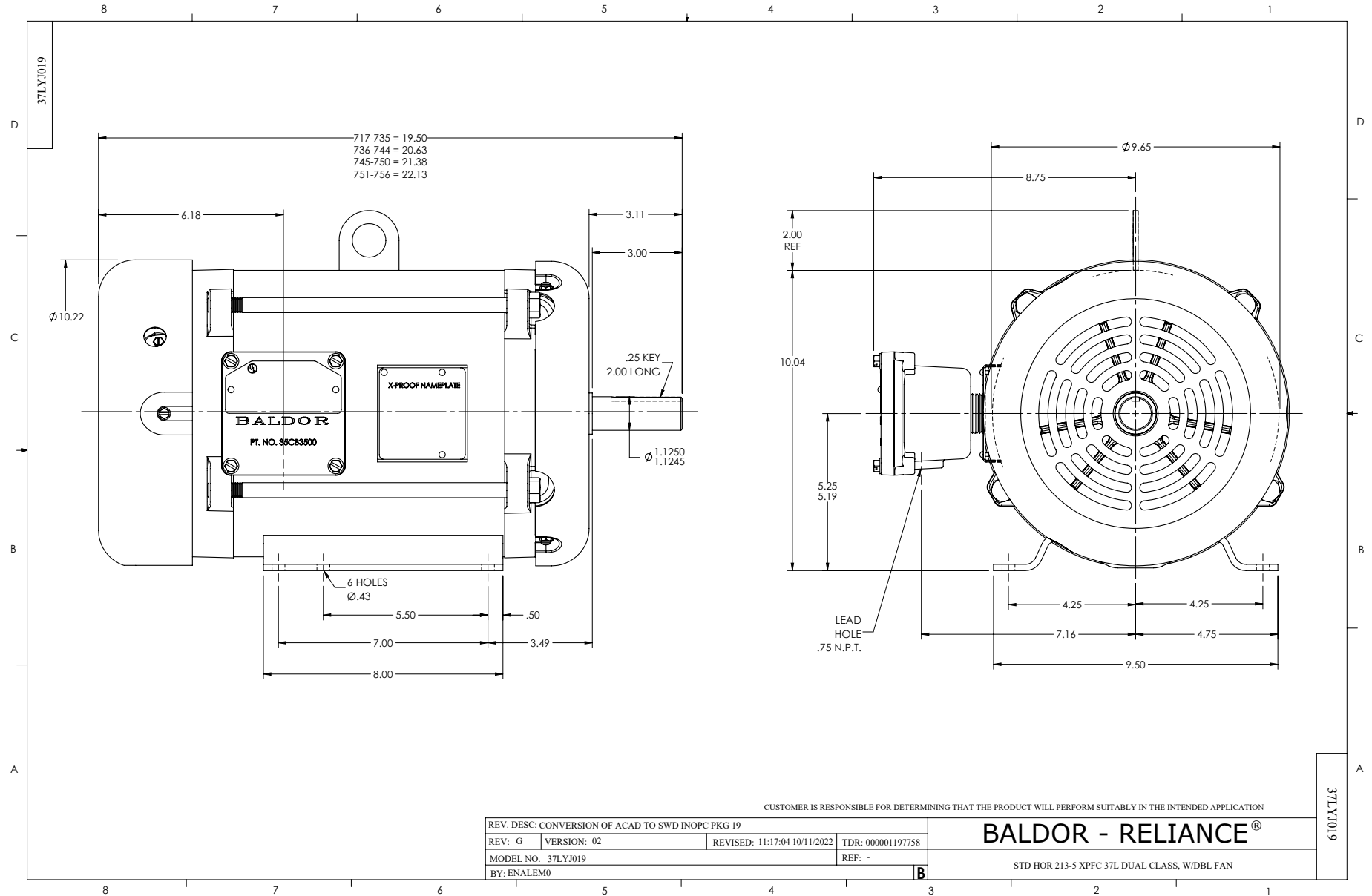
WINDING # 37WGZ649

Typical performance - not guaranteed values.

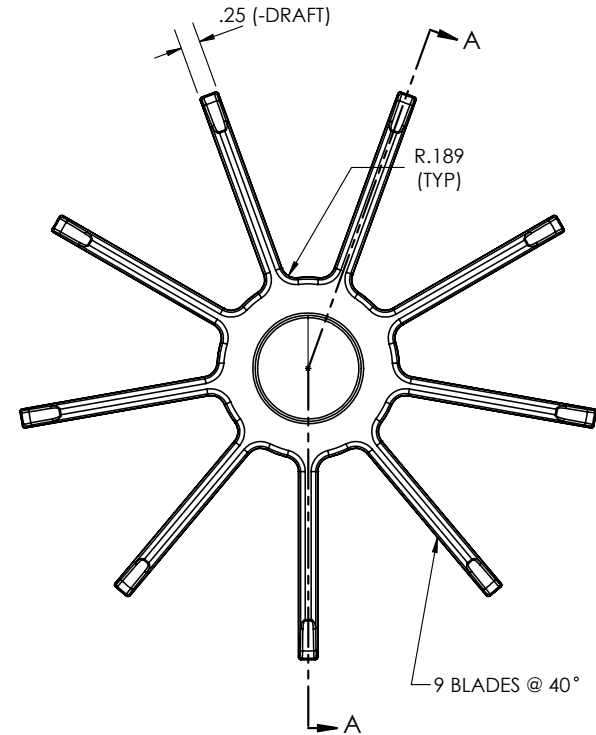
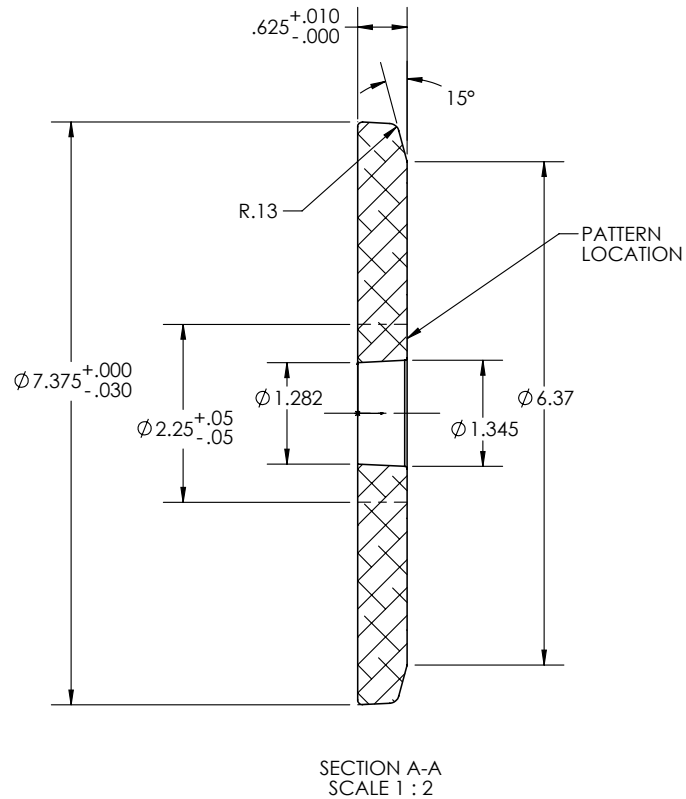
3 HP 1 PH 60 HZ 1750 RPM 230 V 3732L

TORQUES (LB-FT) : PO=22.92 PU=16.99 LR=28.86 LRA=84.49





36FN3004



DIE CAST ALUMINUM TOLERANCES UNLESS OTHERWISE SPECIFIED			
2 PLCS	0-1"	±.010	R _L FLASH GROWTH ALLOWANCE .015"
3 PLCS	0-1"	±.004	
ABOVE 1" ±.001/INCH		ANGLES ±0.5°	
UNSPECIFIED FEATURE DIMENSIONS:			
RADII=.03-.06		DRAFT ANGLES = 2.88°	

WEIGHT = 9 OZ.

REV. DESC: INCREASE RADIUS AROUND HUB AREA

REV: B	VERSION: 02	REVISED: 02:56:33 05/10/2017	TDR: 000001027912
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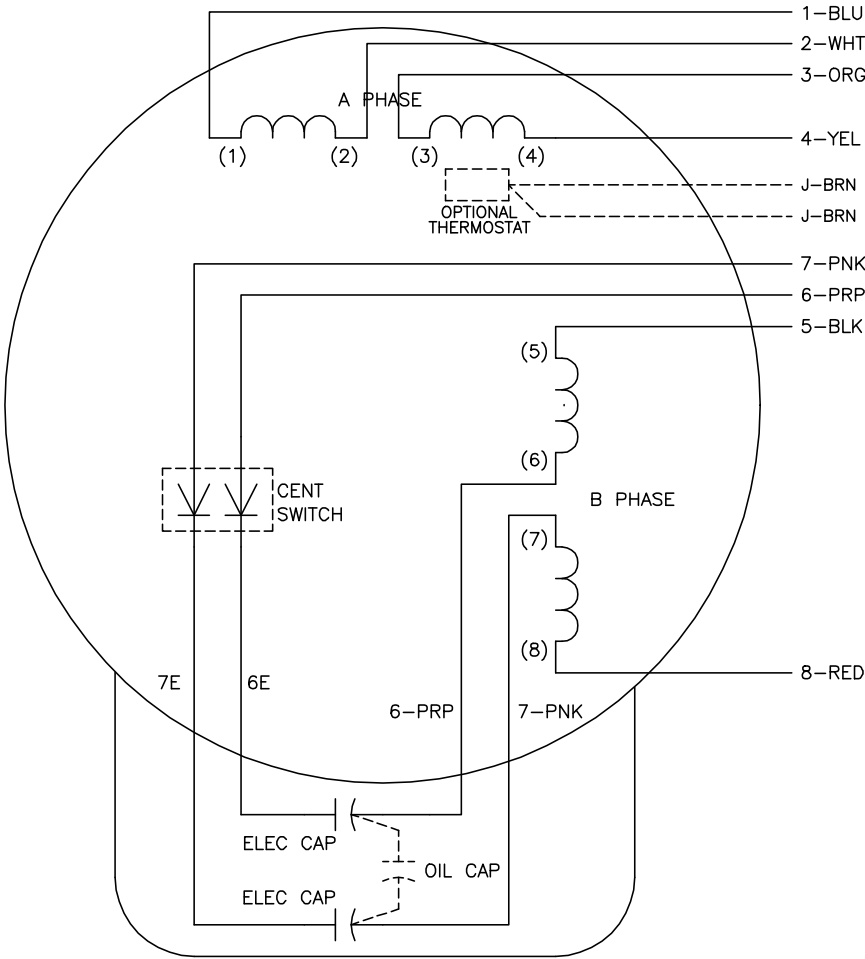
36FN3004	MODEL NO. 36FN3004	REF: -
	BY: USFRHAR	Material: - DIE CAST ALUMINUM

BALDOR

FAN EXTERNAL 36 FRAME - EXPLOSION PROOF DIE CAST

36FN3004

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		
REV. LTR: E	VERSION: 01	TDR: 000000372126
9Z00D0	FILE: \AAA\00007\419	REVISED: 15:44:39 09/28/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L OR LC, DV, REV, SERIES/PAR B PH, 8 LEAD

CD0076