ABB BALDOR RELIANCE

Customer information packet

GDL1605T

5HP, 1725RPM, 1PH, 60HZ, 184TZ, 3646LC, ODTF, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODTF
Frame	184TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
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
Agency Approvals	UR
	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	22.500 A @ 230.0 V
Design Code	L
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	22.5 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	L
Type	AC
Mech. spec.	36M937
Base	
Status	PRD/A
Elec. spec.	36WGW417
Layout	36LYM937
Eff. date	01-21-2025
CD Diagram	CD0017A02
Poles	04
Leads	2#10 A PH,2#16 B PH
Proprietary	False
Created date	02-05-2010

KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.11 IN
Power Factor	76
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	Included
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

NP1256L								
CAT.NO.	GDL1605T							
SPEC.	36M937W417G1							
HP	5							
VOLTS	230							
AMP	22.5							
RPM	1725							
FRAME	184TZ	**HZ**	60			**PH**	1	
SER.F.	1.00	**CODE**	J	**DES**	L	**CLASS**	F	
NEMA-NOM-EFF	80	**PF**	76					
RATING	40C AMB-CONT							
CC								
DE	6206	**ODE**	6205					
ENCL	ODTF	**SN**						

AC Induction Motor Performance Data
Record # 10764
Typical performance - not guaranteed values

Winding: 36WGW417-R001	**Type:** 3646LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			22.5	**Breakdown Torque**	45 LB-FT
R.P.M.			1725	**Pull-up Torque**	39 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	45 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	174 A
Service Factor (S.F.)			1	**No-load Current**	8.5 A
NEMA Nom. Eff.	80	**Power Factor**	76	**Line-line Res. @ 25ºC**	0.349 Ω A Ph 2.38 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	104°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	60	77	85	88	90	90
Efficiency	65.3	77.8	81.7	82.5	81.5	79.3
Speed	1785	1771	1756	1739	1719	1694
Line amperes	10.3	13.5	17.5	22.2	27.7	34

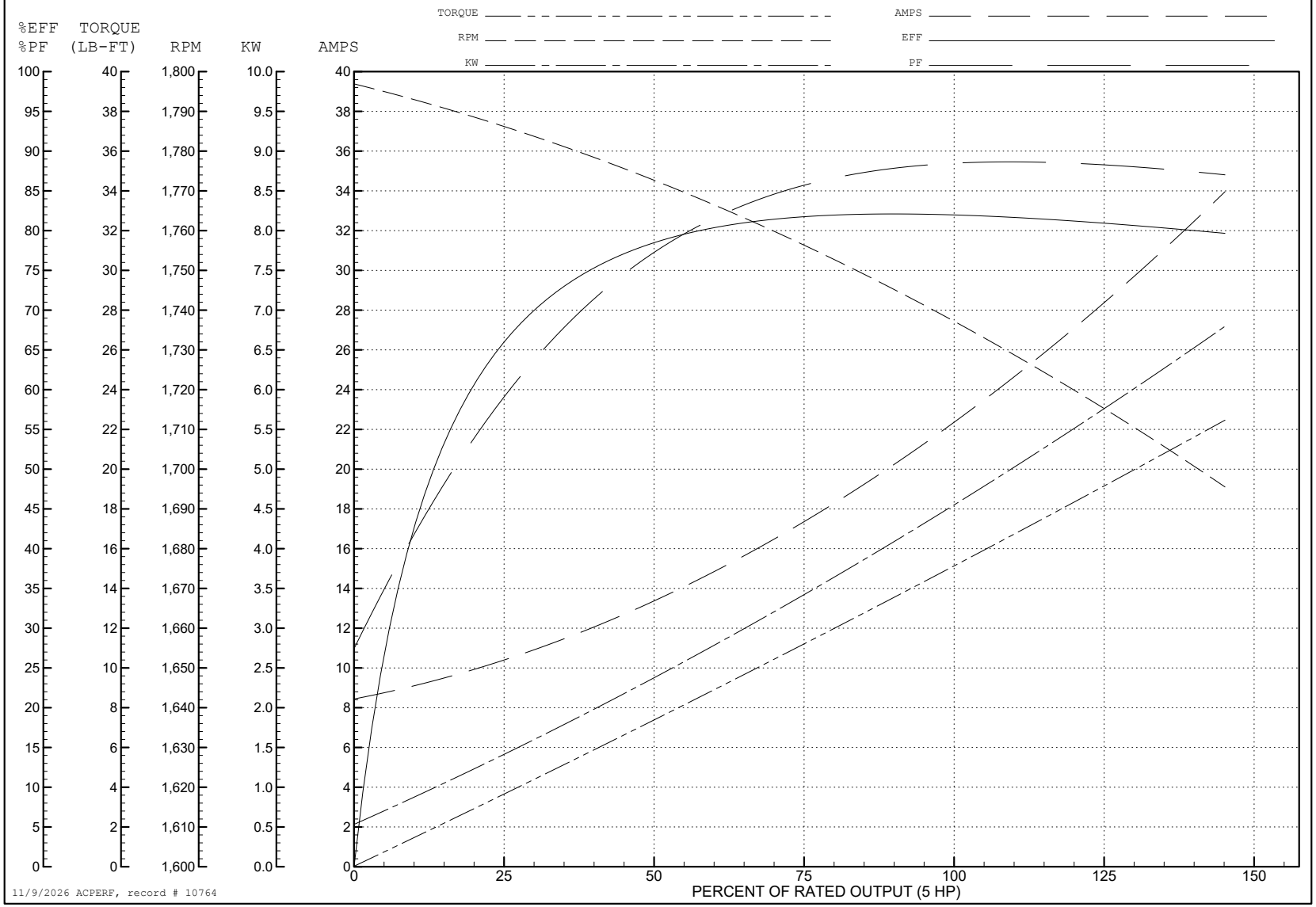
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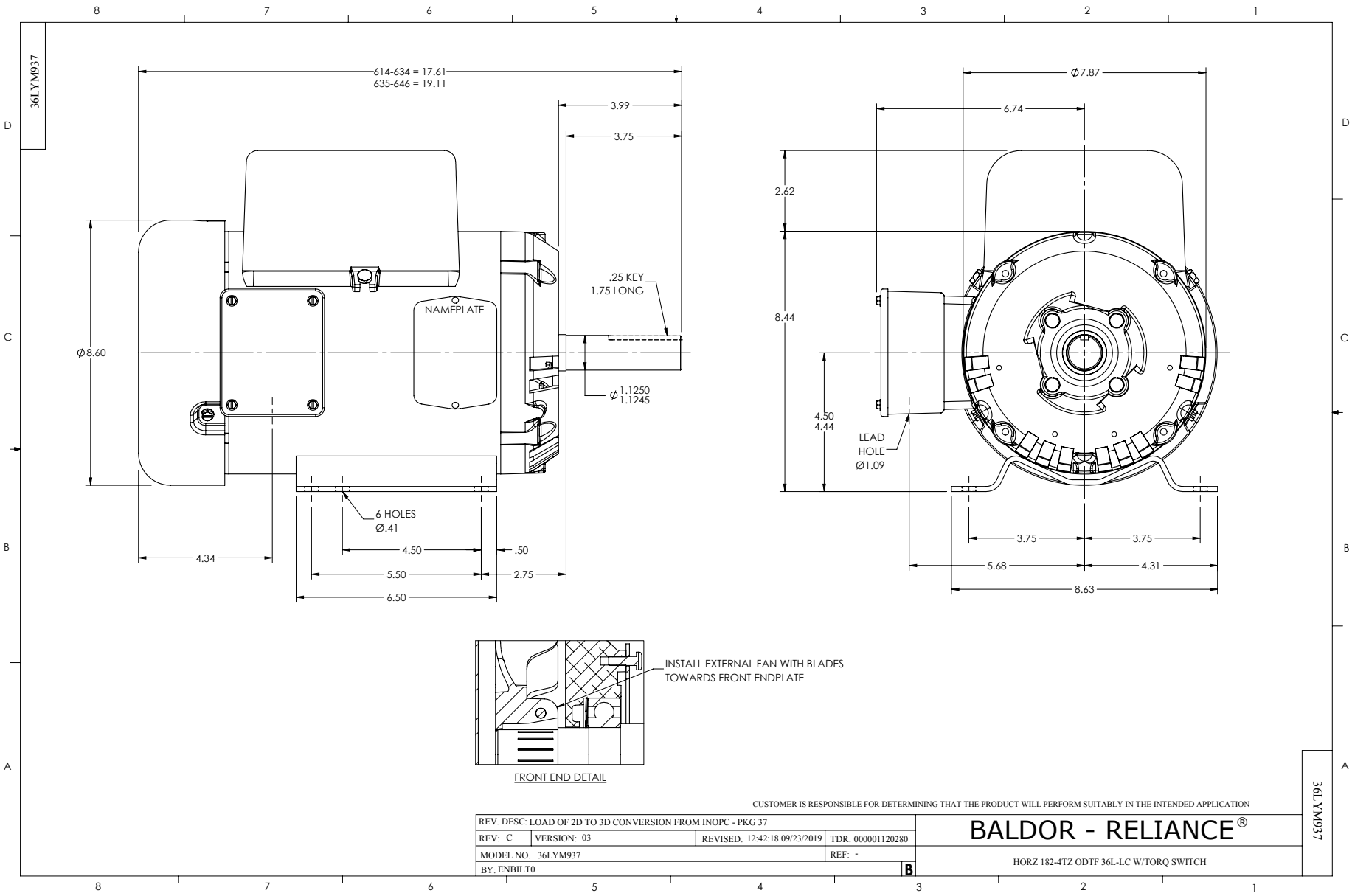
WINDING # 36WGW417

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

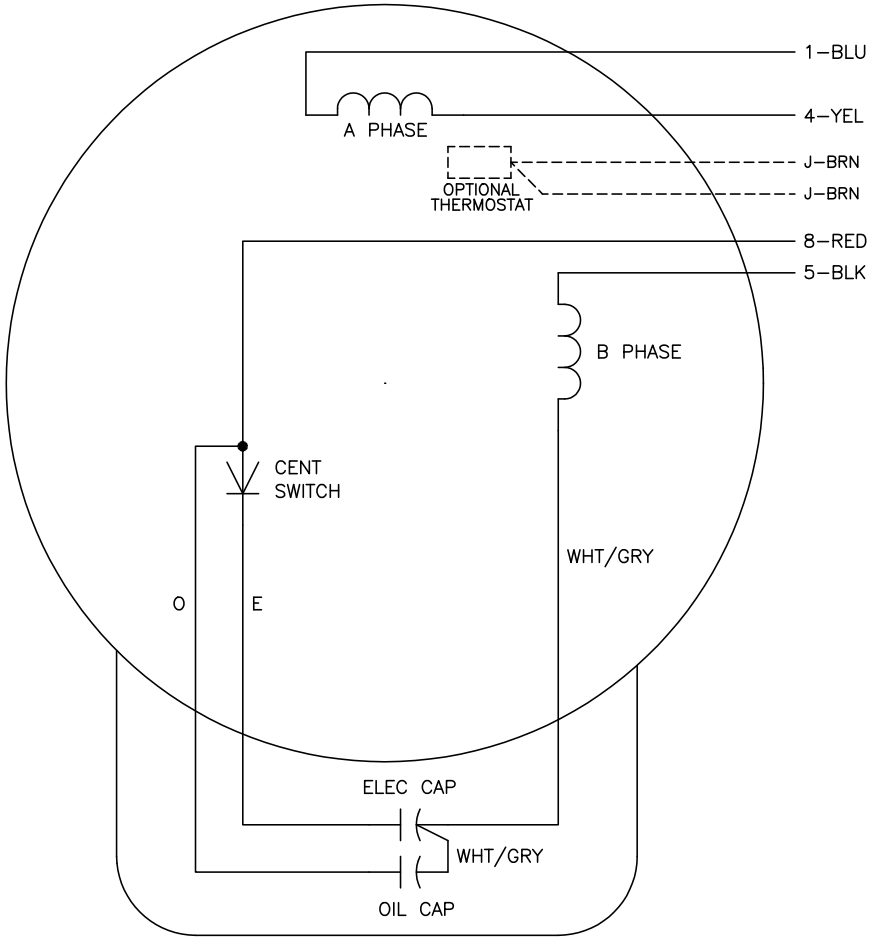
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=45 PU=39 LR=45 LRA=174




36LYM937
614-634 = 17.61
635-646 = 19.11
3.99
3.75
.25 KEY
1.75 LONG
NAMEPLATE
Ø8.60
Ø 1.1250
1.1245
6 HOLES
Ø.41
4.34
4.50
.50
5.50
2.75
6.50
Ø7.87
6.74
2.62
8.44
4.50
4.44
LEAD
HOLE
Ø1.09
3.75
3.75
5.68
4.31
8.63
INSTALL EXTERNAL FAN WITH BLADES
TOWARDS FRONT ENDPLATE
FRONT END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD OF 2D TO 3D CONVERSION FROM INOPC - PKG 37
REV: C
VERSION: 03
REVISED: 12:42:18 09/23/2019
TDR: 000001120280
MODEL NO. 36LYM937
REF: -
BY: ENBILT0
B
BALDOR - RELIANCE®
HORZ 182-4TZ ODTF 36L-LC W/TORQ SWITCH
36LYM937

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