ABB BALDOR RELIANCE

Customer information packet

CL5027T-50

2HP, 1425RPM, 1PH, 50HZ, 182TC, X3646L, XPFC
Class - CLI GP D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	182TC
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	CLI GP D
Haz Area Division	Division I
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	2.000 HP @ 50 HZ
Phase	1
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	220.0 V @ 50 HZ
	110.0 V @ 50 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	23.000 A @ 110.0 V
	11.500 A @ 220.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
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

Part Detail

Revision	AN
Type	AC
Mech. spec.	36G377
Base	
Status	PRD/A
Elec. spec.	36WGX415
Layout	36LYG377
Eff. date	02-21-2024
CD Diagram	CD0001
Poles	04
Leads	4#14 A PH,2#16 B PH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	11.5 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	4 @ 14 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3646L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	20.36 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-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	1425 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	36G377X415						
CAT.NO.							
H.P.	2		**T. CODE**	T2C			
VOLTS	110/220						
AMPS	23/11.5						
R.P.M.	1425						
HZ	50	**PH**	1		**CLASS**	B	
SER.F.	1.00		**DES**	L	**CODE**	K	
RATING	40C AMB-CONT						
FRAME	182TC				**NEMA NOM. EFF**	77	
		PF	78				
BLANK							

AC Induction Motor Performance Data
Record # 10986
Typical performance - not guaranteed values

Winding: 36WGX415-R001	**Type:** 3646L	**Enclosure:** TEFC

Nameplate Data				**220 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	7.4 LB-FT
Volts			110/220	**Start Configuration**	direct on line
Full Load Amps			23/11.5	**Breakdown Torque**	19 LB-FT
R.P.M.			1425	**Pull-up Torque**	11 LB-FT
Hz	50	**Phase**	1	**Locked-rotor Torque**	24 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	74 A
Service Factor (S.F.)			1	**No-load Current**	6.9 A
NEMA Nom. Eff.	77	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.856 Ω A Ph 0.661 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	72°C

Load Characteristics 220 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	37	56	68	76	81	84
Efficiency	65	76	78	77	75	70
Speed	1487	1474	1459	1445	1428	1403
Line amperes	7.3	8.4	9.9	11.9	14.2	17.1

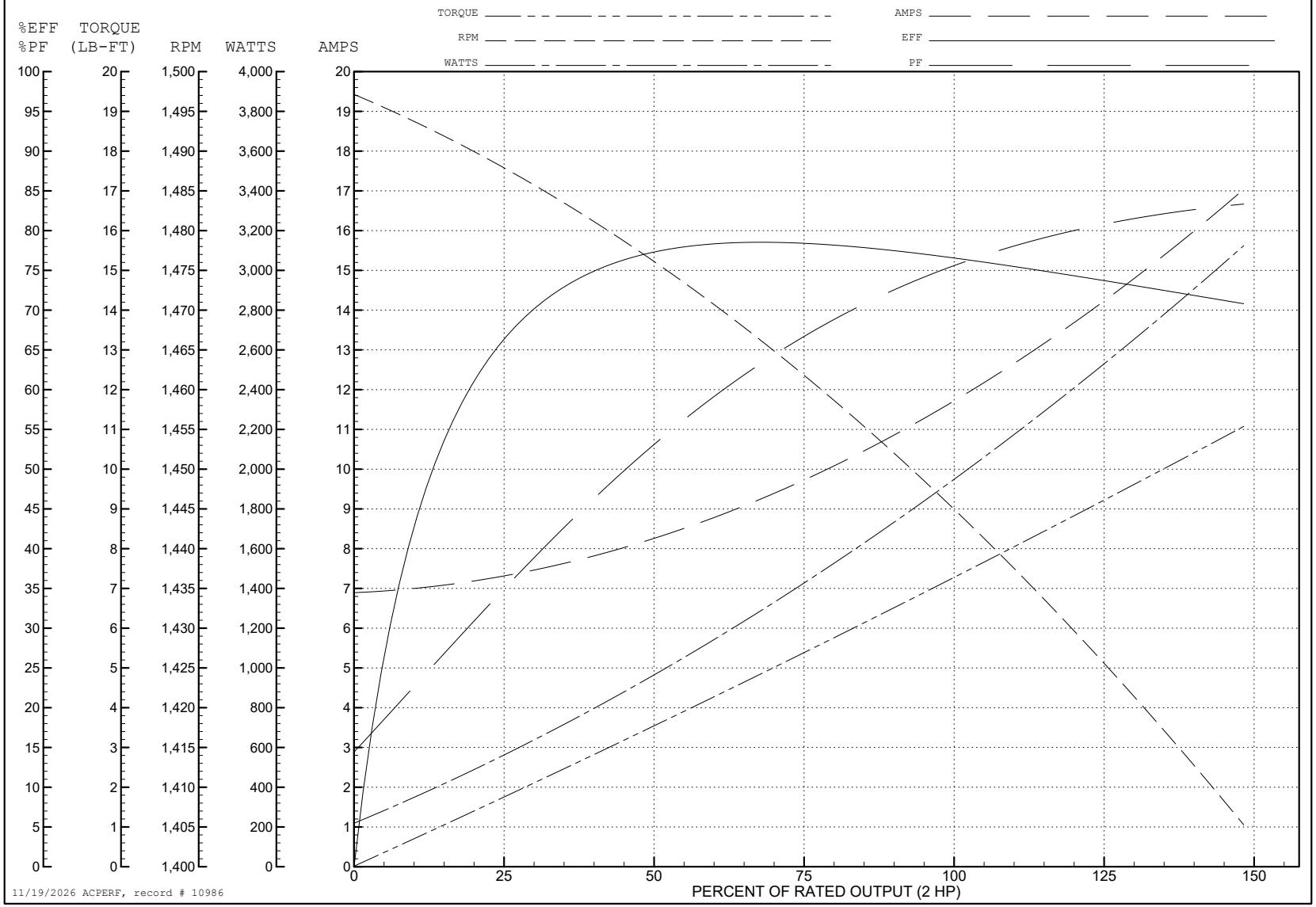
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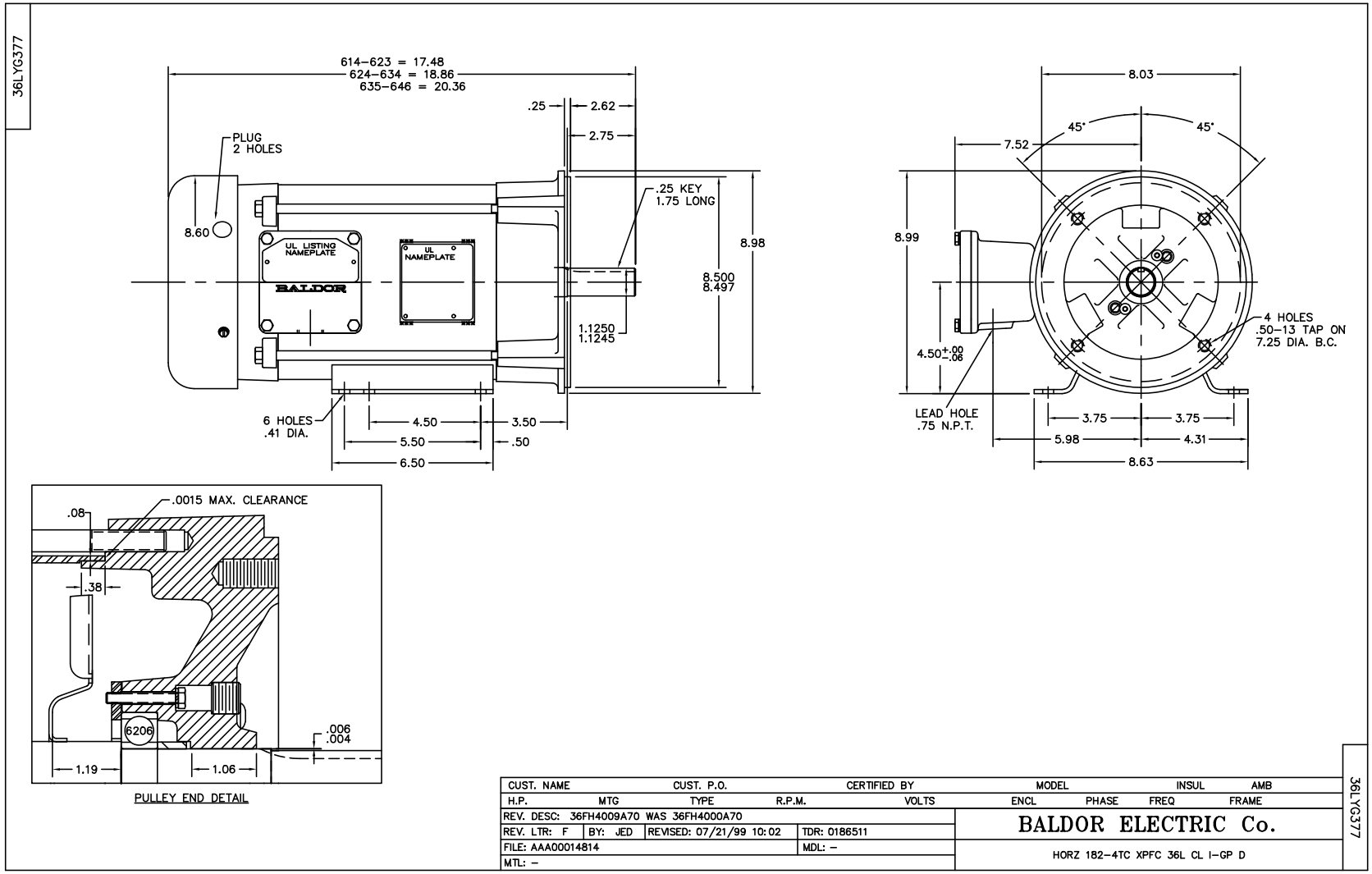
WINDING # 36WGX415

2 HP 1 PH 50 HZ 1425 RPM 220 V 3646L

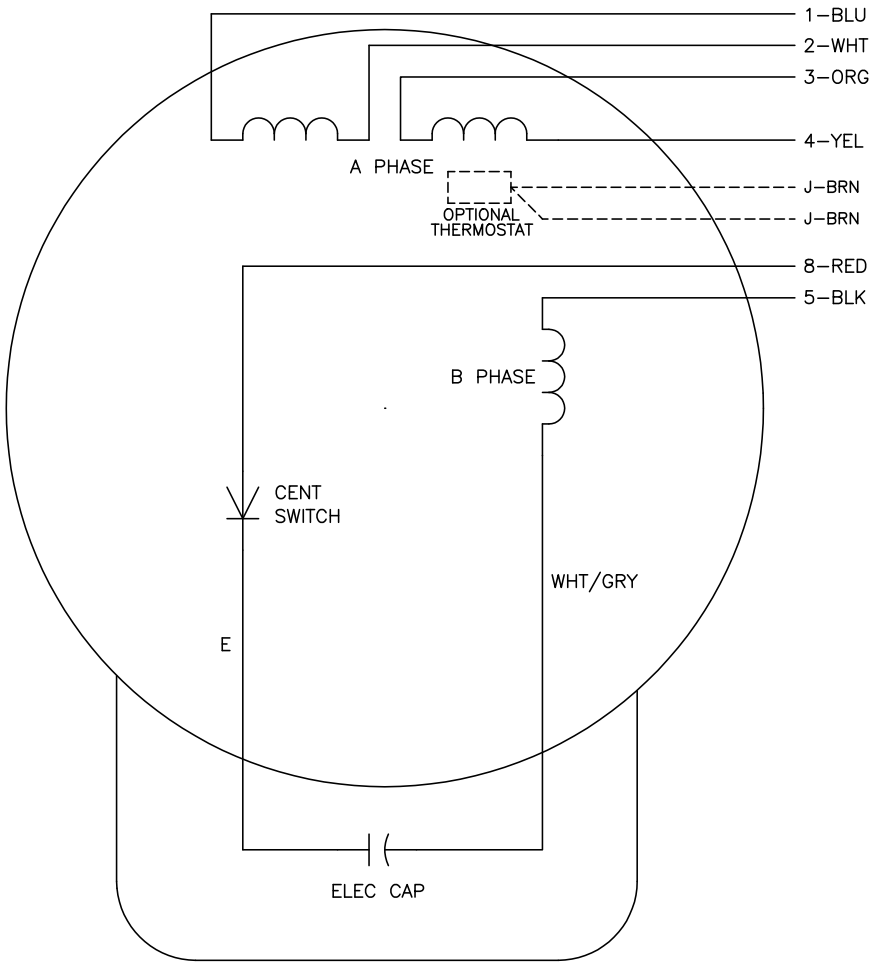
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=19 PU=11 LR=24 LRA=74




36LYG377
614–623 = 17.48
624–634 = 18.86
635–646 = 20.36
.25
2.62
2.75
PLUG
2 HOLES
8.60
.25 KEY
1.75 LONG
8.98
8.500
8.497
1.1250
1.1245
UL LISTING NAMEPLATE
UL NAMEPLATE
BALDOR
6 HOLES
.41 DIA.
4.50
3.50
5.50
.50
6.50
8.03
45°
45°
7.52
8.99
4 HOLES
.50–13 TAP ON
7.25 DIA. B.C.
4.50 +.00 –.06
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.98
4.31
8.63
.0015 MAX. CLEARANCE
.08
.38
6206
.006
.004
1.19
1.06
PULLEY END DETAIL
CUST. NAME
CUST. P.O.
CERTIFIED BY
MODEL
INSUL
AMB
H.P.
MTG
TYPE
R.P.M.
VOLTS
ENCL
PHASE
FREQ
FRAME
REV. DESC: 36FH4009A70 WAS 36FH4000A70
REV. LTR: F
BY: JED
REVISED: 07/21/99 10:02
TDR: 0186511
FILE: AAA00014814
MDL: –
MTL: –
BALDOR ELECTRIC Co.
HORZ 182–4TC XPFC 36L CL I–GP D
36LYG377

CD0001



	LINE A	LINE B	JOIN
HIGH STD	1	4,5	2,3,8
HIGH OPP	1	4,8	2,3,5
LOW STD	1,3,8	2,4,5	–
LOW OPP	1,3,5	2,4,8	–

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.

CD0001

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS