ABB BALDOR RELIANCE

Customer information packet

EL1405T

2HP, 1740RPM, 1PH, 60HZ, 182T, 3623LC, OPSB, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	182T
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CURUS
	CURUSEEV
	NEMA PREMIUM (OLD LOGO)
	C UR US
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	17.600 A @ 115.0 V
	8.800 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AN
Type	AC
Mech. spec.	36G967
Base	
Status	PRD/A
Elec. spec.	36WGY526
Layout	36LYG967
Eff. date	05-01-2024
CD Diagram	CD0055
Poles	04
Leads	6#16
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3623LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.87 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	1740 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2116L										
CAT.NO.	EL1405T									
SPEC.	36G967Y526G1									
HP	2									
VOLTS	115/230									
AMP	17.6/8.8									
RPM	1740									
FRAME	182T		**HZ**	60		**PH**	1			
SER.F.	1.15	**CODE**	J	**DES**	L	**CL**	F			
NEMA-NOM-EFF	82.5	**PF**	90							
RATING	40C AMB-CONT									
CC										
DE	6206	**ODE**	6205							
ENCL	OPSB	**SN**								
	SFA 20.4/10.2									

Accessories

Part number	Description	Multiplier
36-3403	C FACE KIT	A8
36EP1405A09SP	D-FLANGE KIT	

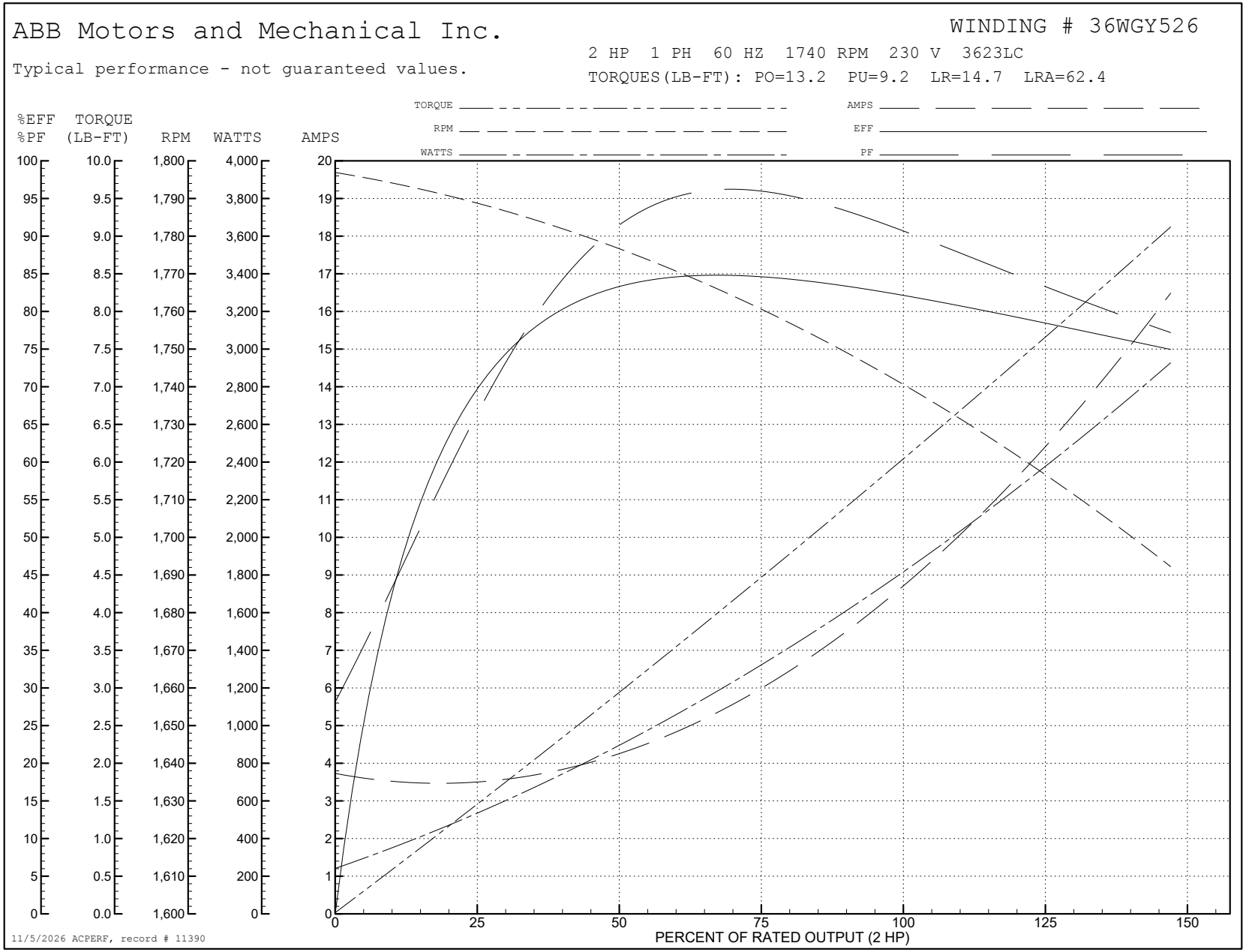
AC Induction Motor Performance Data
Record # 11390
Typical performance - not guaranteed values

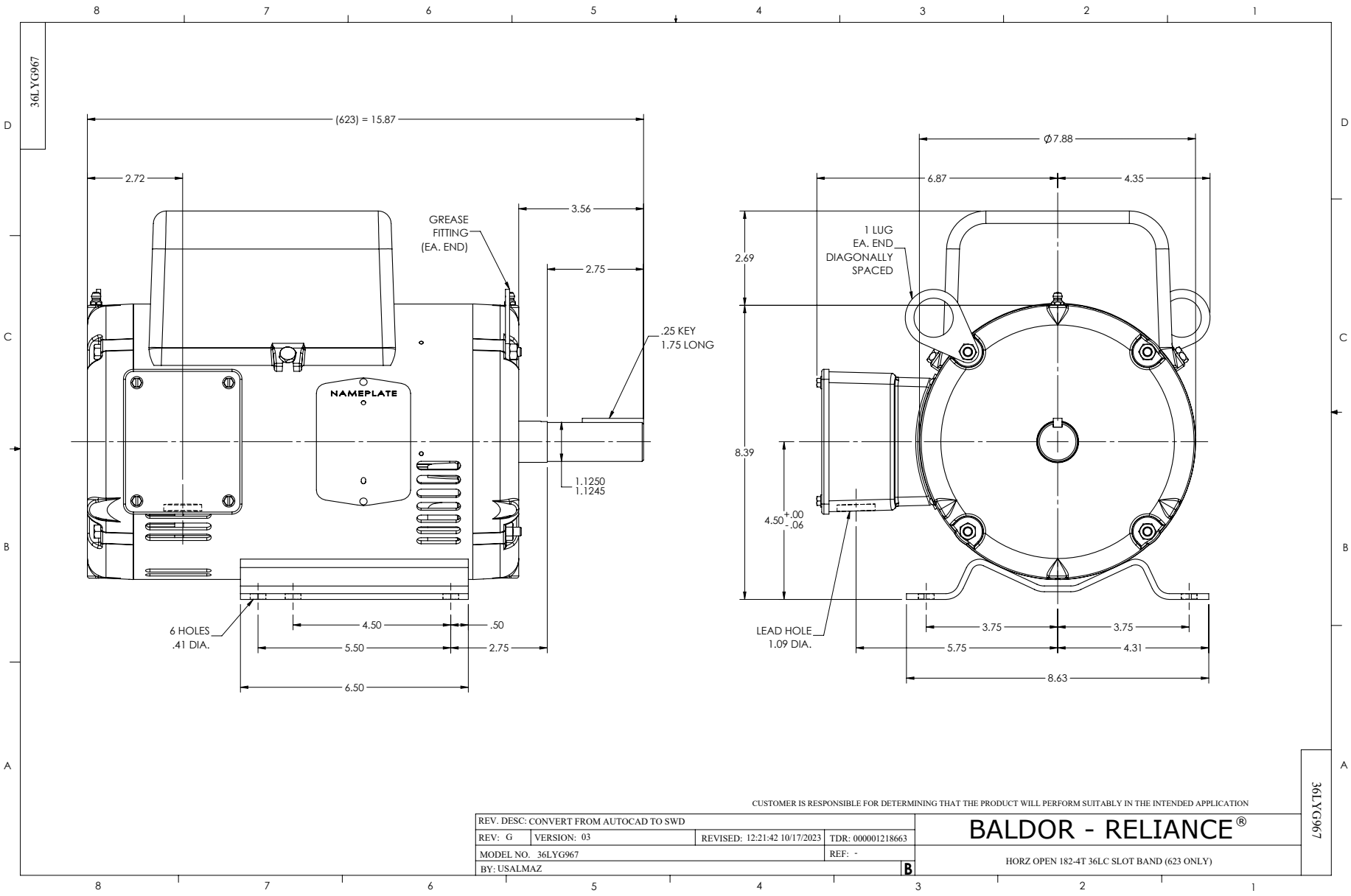
Winding: 36WGY526-R001	**Type:** 3623LC	**Enclosure:** OPSB

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	6.1 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			17.6/8.8	**Breakdown Torque**	13.2 LB-FT
R.P.M.			1740	**Pull-up Torque**	9.2 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	14.7 LB-FT
NEMA Design Code	L	**KVA Code**	J	**Starting Current**	62.4 A
Service Factor (S.F.)			1.15	**No-load Current**	3.5 A
NEMA Nom. Eff.	82.5	**Power Factor**	90	**Line-line Res. @ 25ºC**	1.27 Ω A Ph 0.65 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps			20.4/10.2	**Temp. Rise @ S.F. Load**	62°C

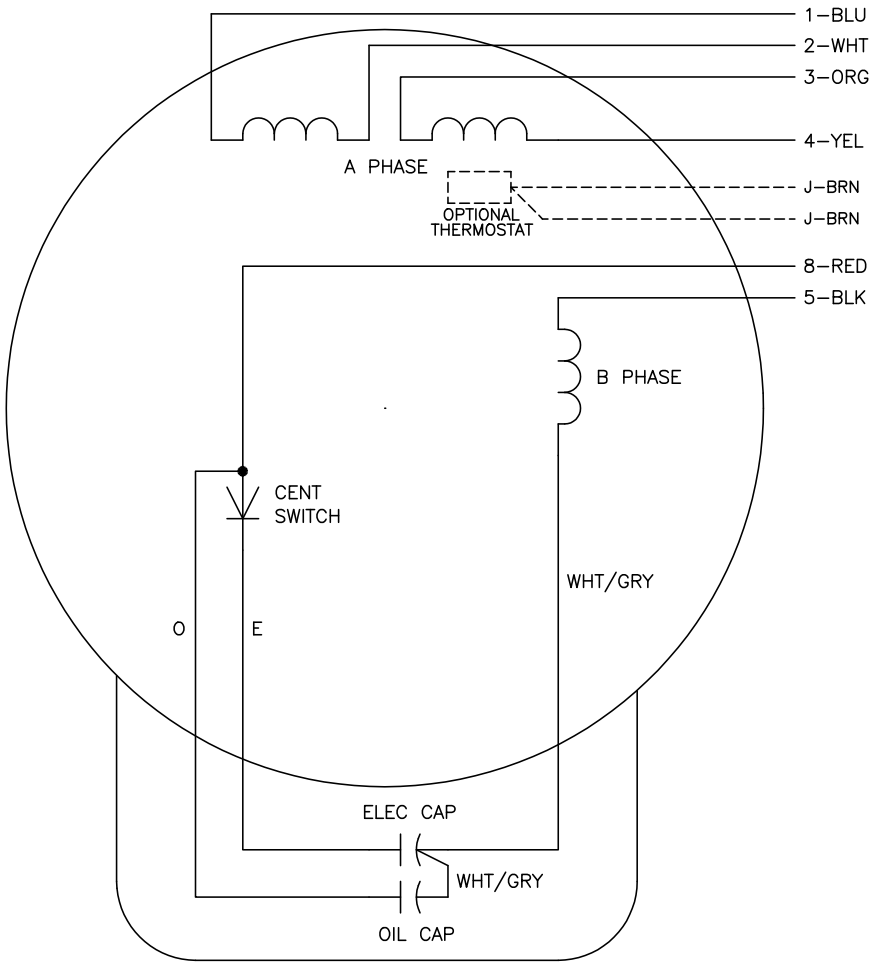
Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	72	85	90	92	92	91	92
Efficiency	70.9	81.6	83.9	82.6	79.6	74.3	80.8
Speed	1787	1773	1758	1742	1722	1688	1730
Line amperes	3.46	4.83	6.61	8.6	11.08	17.38	10.1


ABB Motors and Mechanical Inc.
WINDING # 36WGY526
Typical performance - not guaranteed values.
2 HP 1 PH 60 HZ 1740 RPM 230 V 3623LC
TORQUES(LB-FT): PO=13.2 PU=9.2 LR=14.7 LRA=62.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/5/2026 ACPERF, record # 11390


36LYG967
(623) = 15.87
2.72
3.56
2.75
GREASE FITTING (EA. END)
.25 KEY 1.75 LONG
NAMEPLATE
1.1250 1.1245
6 HOLES .41 DIA.
4.50
.50
5.50
2.75
6.50
Ø7.88
6.87
4.35
1 LUG EA. END DIAGONALLY SPACED
2.69
8.39
4.50 +.00 -.06
LEAD HOLE 1.09 DIA.
3.75
3.75
5.75
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT FROM AUTOCAD TO SWD
REV: G
VERSION: 03
REVISED: 12:21:42 10/17/2023
TDR: 000001218663
MODEL NO. 36LYG967
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ OPEN 182-4T 36LC SLOT BAND (623 ONLY)
36LYG967

CD0055



	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.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS