ABB BALDOR RELIANCE

Customer information packet

JL3514A

1.5HP, 1725RPM, 1PH, 60HZ, 56J, 3532LC, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56J
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	1.500 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	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	13.400 A @ 115.0 V
	6.700 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	B
Type	AC
Mech. spec.	35F974
Base	
Status	PRD/A
Elec. spec.	35WGG377
Layout	35LYF974
Eff. date	03-13-2025
CD Diagram	CD0098A02
Poles	04
Leads	4#18,1#16 #4TH
Proprietary	False
Created date	02-23-2023

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.60 IN
Power Factor	90
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use Eve-Not Valiid
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	JL3514A								
SPEC.	35F974G377								
HP	1.5								
VOLTS	115/230								
AMP	13.4/6.7								
RPM	1725								
FRAME	56J		**HZ**	60		**PH**	1		
SER.F.	1.00	**CODE**	H	**DES**	L	**CL**	F		
NEMA-NOM-EFF	80	**PF**	90						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 88874
Typical performance - not guaranteed values

Winding: 35WGG377-R002	**Type:** 3532LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1.5	**Full Load Torque**	4.56 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13.4/6.7	**Breakdown Torque**	9.9 LB-FT
R.P.M.			1725	**Pull-up Torque**	8.06 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	12.98 LB-FT
NEMA Design Code	L	**KVA Code**	H	**Starting Current**	43.97 A
Service Factor (S.F.)			1	**No-load Current**	0.877 A
NEMA Nom. Eff.	80	**Power Factor**	90	**Line-line Res. @ 25ºC**	0.517 Ω A Ph 1.32 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	67°C
				Locked-rotor Power Factor	91.1
				Rotor inertia	0.232 lb-ft²

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	95	98	98	98	97	96
Efficiency	68.1	80.4	82.5	81.1	76.9	69.8
Speed	1782	1765	1746	1723	1690	1641
Line amperes	1.83	3.08	4.5	6.1	8.12	10.79

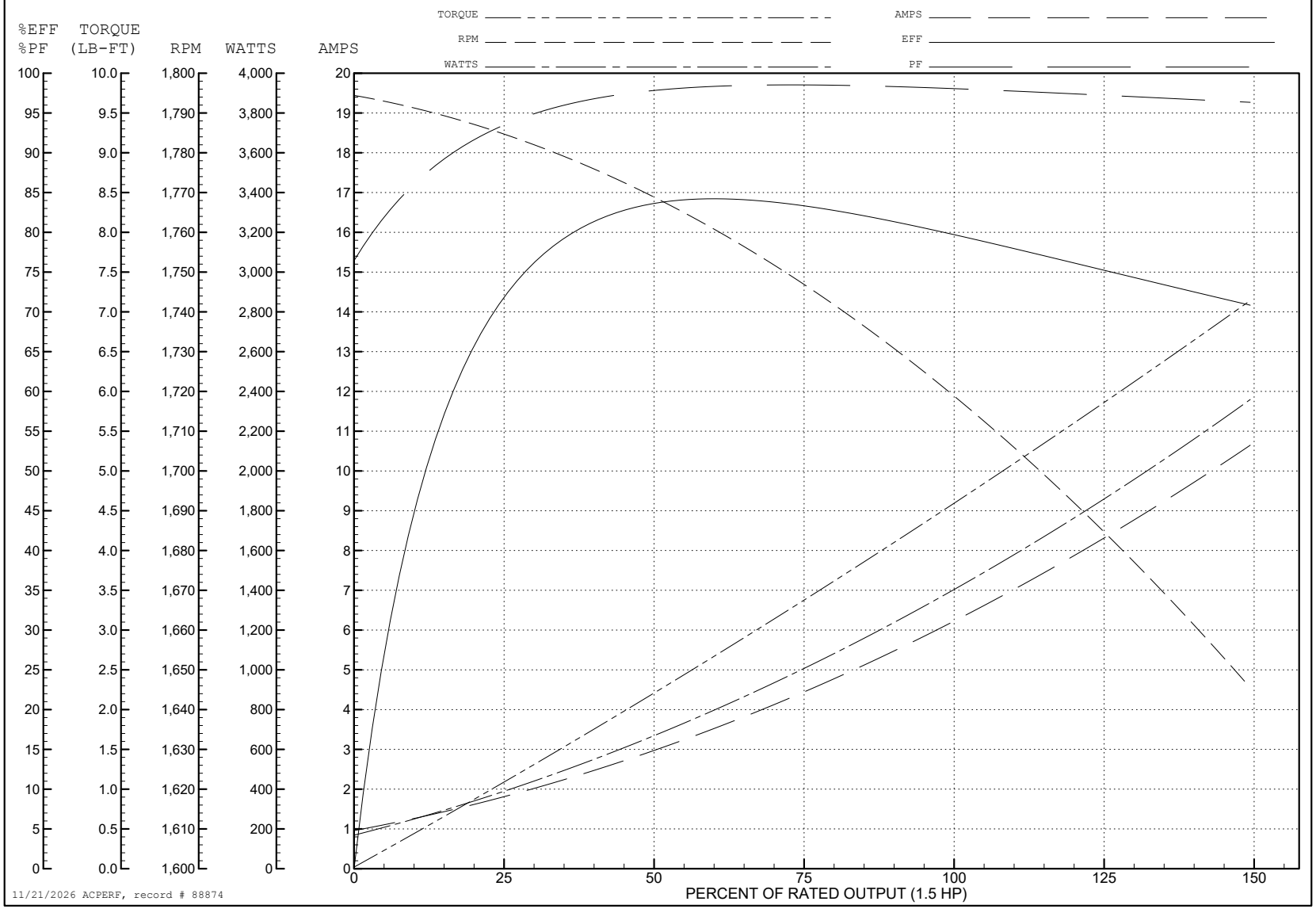
ABB Motors and Mechanical Inc.

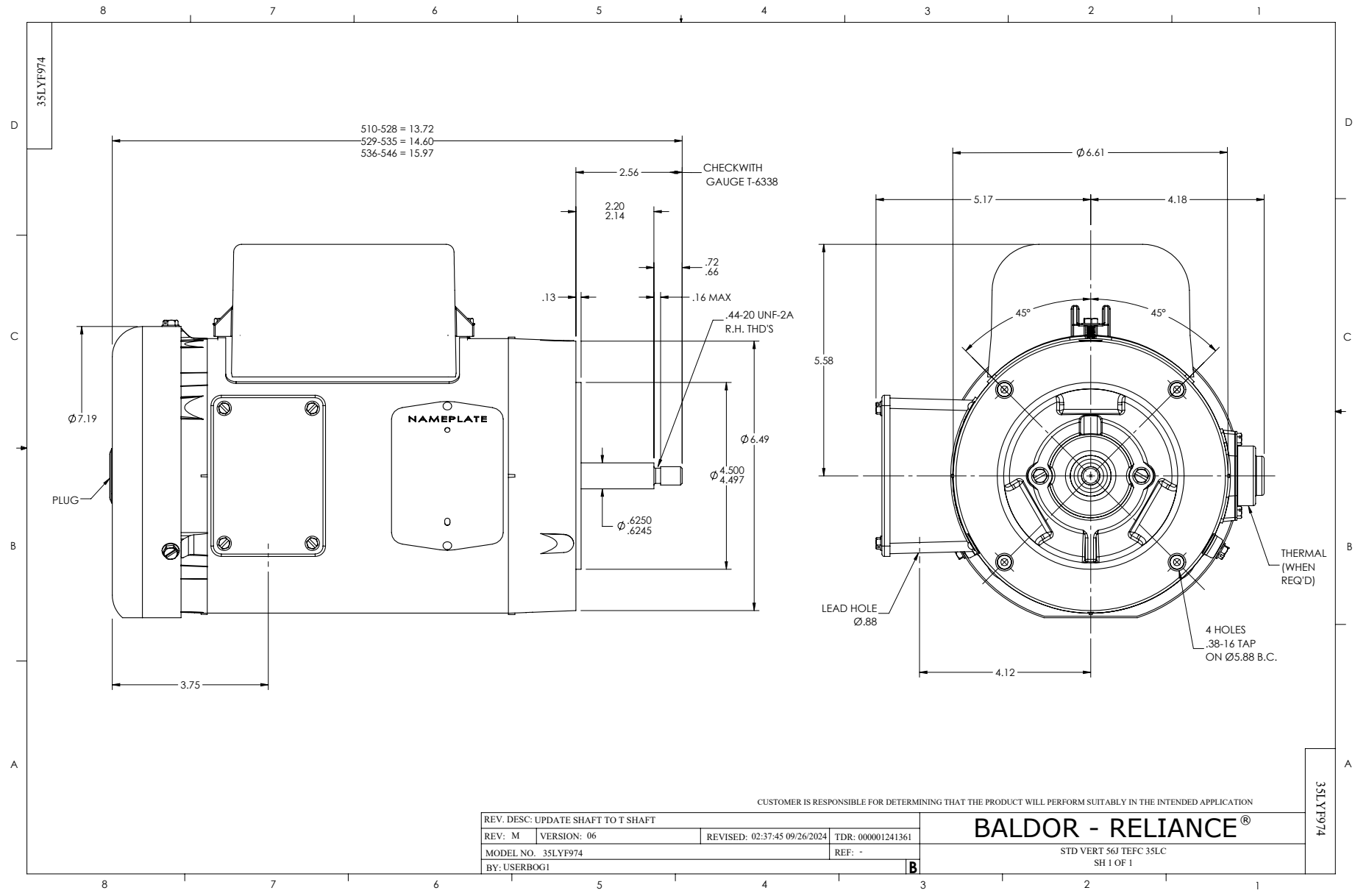
WINDING # 35WGG377

1.5 HP 1 PH 60 HZ 1725 RPM 230 V 3532LC

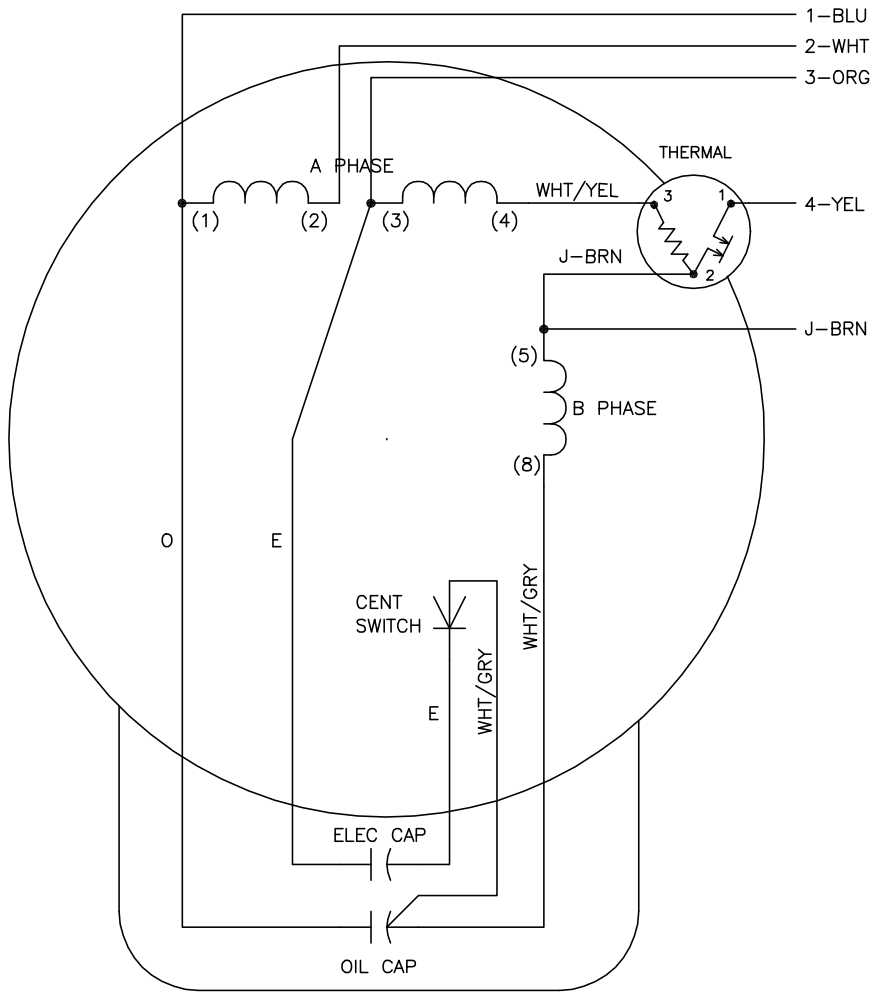
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=9.9 PU=8.06 LR=12.98 LRA=43.97




35LYF974
510-528 = 13.72
529-535 = 14.60
536-546 = 15.97
2.56
CHECKWITH
GAUGE T-6338
2.20
2.14
.72
.66
.13
.16 MAX
.44-20 UNF-2A
R.H. THD'S
Ø7.19
NAMEPLATE
Ø6.49
Ø4.500
4.497
PLUG
Ø.6250
.6245
3.75
Ø6.61
5.17
4.18
45°
45°
5.58
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.12
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE SHAFT TO T SHAFT
REV: M
VERSION: 06
REVISED: 02:37:45 09/26/2024
TDR: 000001241361
MODEL NO. 35LYF974
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
STD VERT 56J TEFC 35LC
SH 1 OF 1
35LYF974

CD0098A02



	LINE A	LINE B	JOIN	JOIN
HIGH	1	4	2,3	J
LOW	1,3	4	2,J	–

NOTES:

1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: E	VERSION: 01	TDR: 000000373039	
CD0098A02	FILE: \AAA\00007\479	REVISED: 11:21:31 08/11/2005	TYPE LC, DV, FIX, OIL CAP ACROSS LINE, THERMAL, 5 LEADS
	MTL: –	BY: ENJOEP0	

CD0098A02