

**BALDOR • RELIANCE**

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# Customer information packet

## CJL3501A

.33HP, 1725RPM, 1PH, 60HZ, 56J, 3414L, TEFC, F1

Class - None

Division - Not Applicable

## 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, Induction Run
Output @ Frequency	.330 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	UR CSA
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.000 A @ 230.0 V 3.600 A @ 208.0 V 6.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	AA
Type	AC
Mech. spec.	34L052
Base	
Status	PRD/A
Elec. spec.	34WG5597
Layout	34LYL052
Eff. date	09-18-2023
CD Diagram	CD0094
Poles	04
Leads	5#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	3.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.84 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Automatic Thermal Overload

**Winding Thermal 1 Location**

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**ES**

**Nameplate**

<b>NP1257L</b>									
<b>CAT.NO.</b>	CJL3501A								
<b>SPEC.</b>	34L52-5597								
<b>HP</b>	.33								
<b>VOLTS</b>	115/230								
<b>AMP</b>	6/3								
<b>RPM</b>	1725								
<b>FRAME</b>	56J			<b>HZ</b>	60		<b>PH</b>	1	
<b>SER.F.</b>	1.35	<b>CODE</b>	L	<b>DES</b>	N	<b>CL</b>	B		
<b>NEMA-NOM-EFF</b>	60	<b>PF</b>	60						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6203	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							
	SFA 6.8/3.4								

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
34-171	C FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 6784

Typical performance - not guaranteed values

Winding: 34WG5597-R001		Type: 3414L		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	.33		Full Load Torque	1 LB-FT	
Volts	115/230		Start Configuration	direct on line	
Full Load Amps	6/3		Breakdown Torque	2.95 LB-FT	
R.P.M.	1725		Pull-up Torque	2.55 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque	3.6 LB-FT
NEMA Design Code	N	KVA Code	L	Starting Current	13 A
Service Factor (S.F.)	1.35		No-load Current	2.6 A	
NEMA Nom. Eff.	60	Power Factor	60	Line-line Res. @ 25°C	6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	59°C	
S.F. Amps	6.8/3.4		Temp. Rise @ S.F. Load	73°C	

**Load Characteristics 230 V, 60 Hz, 0.33 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	41	52	60	67	73	71
Efficiency	33	41	52	60	61.5	61.5	61.5
Speed	1780	1760	1745	1725	1705	1680	1690
Line amperes	2.6	2.7	2.8	3	3.3	3.7	3.4

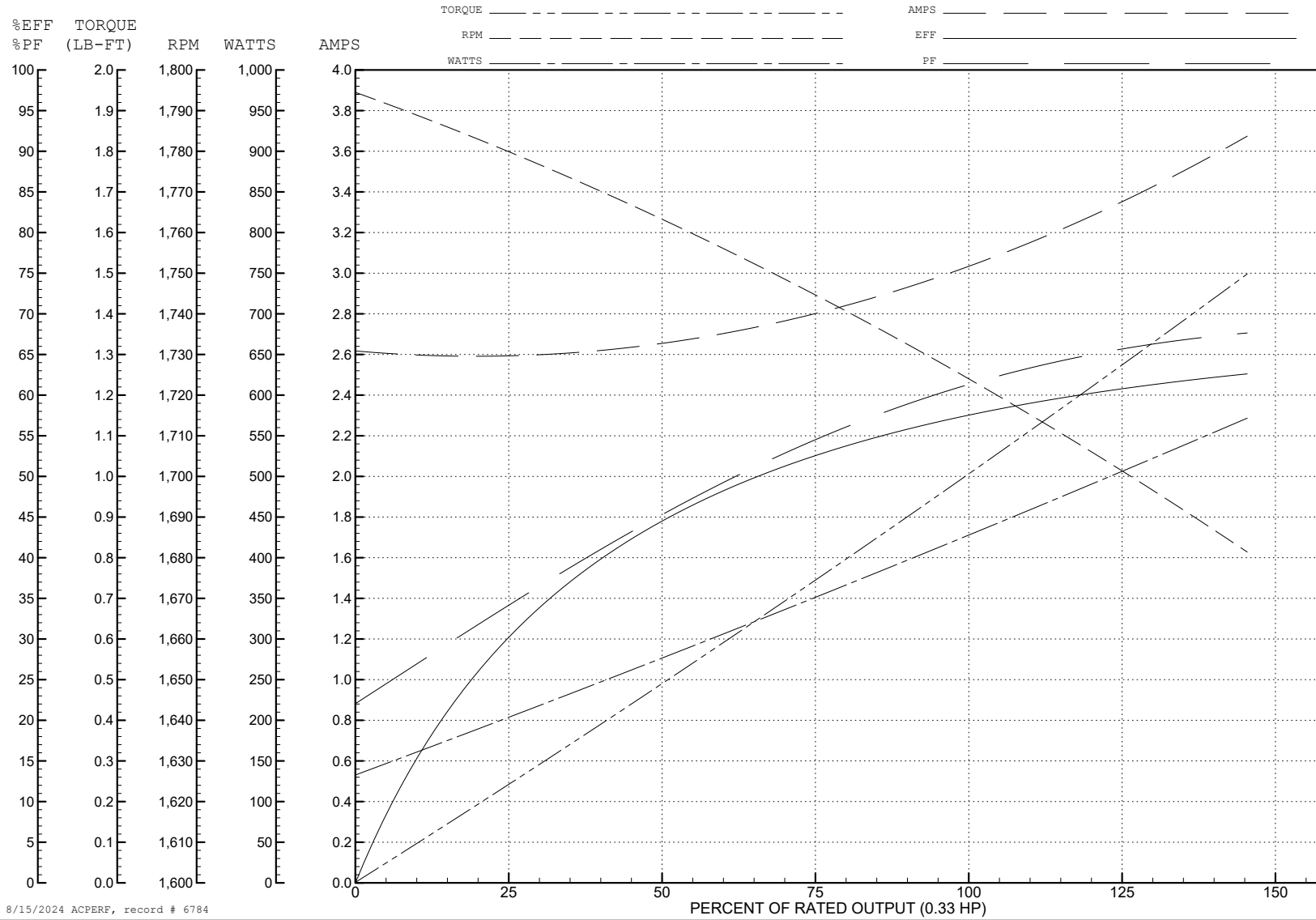
ABB Motors and Mechanical Inc.

WINDING # 34WG5597

0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

Typical performance - not guaranteed values.

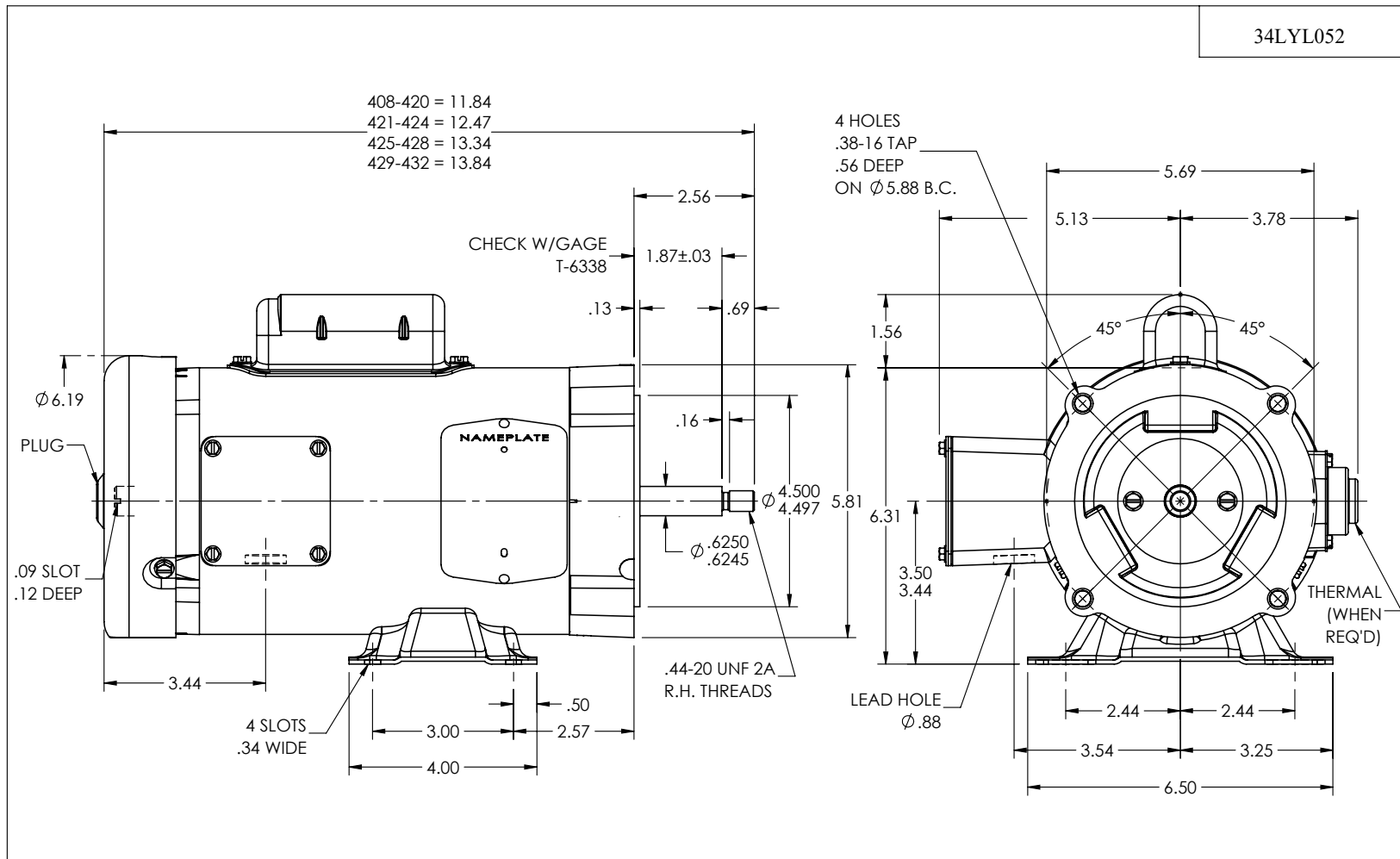
TORQUES (LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13



8/15/2024 ACPERF, record # 6784



34LYL052



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

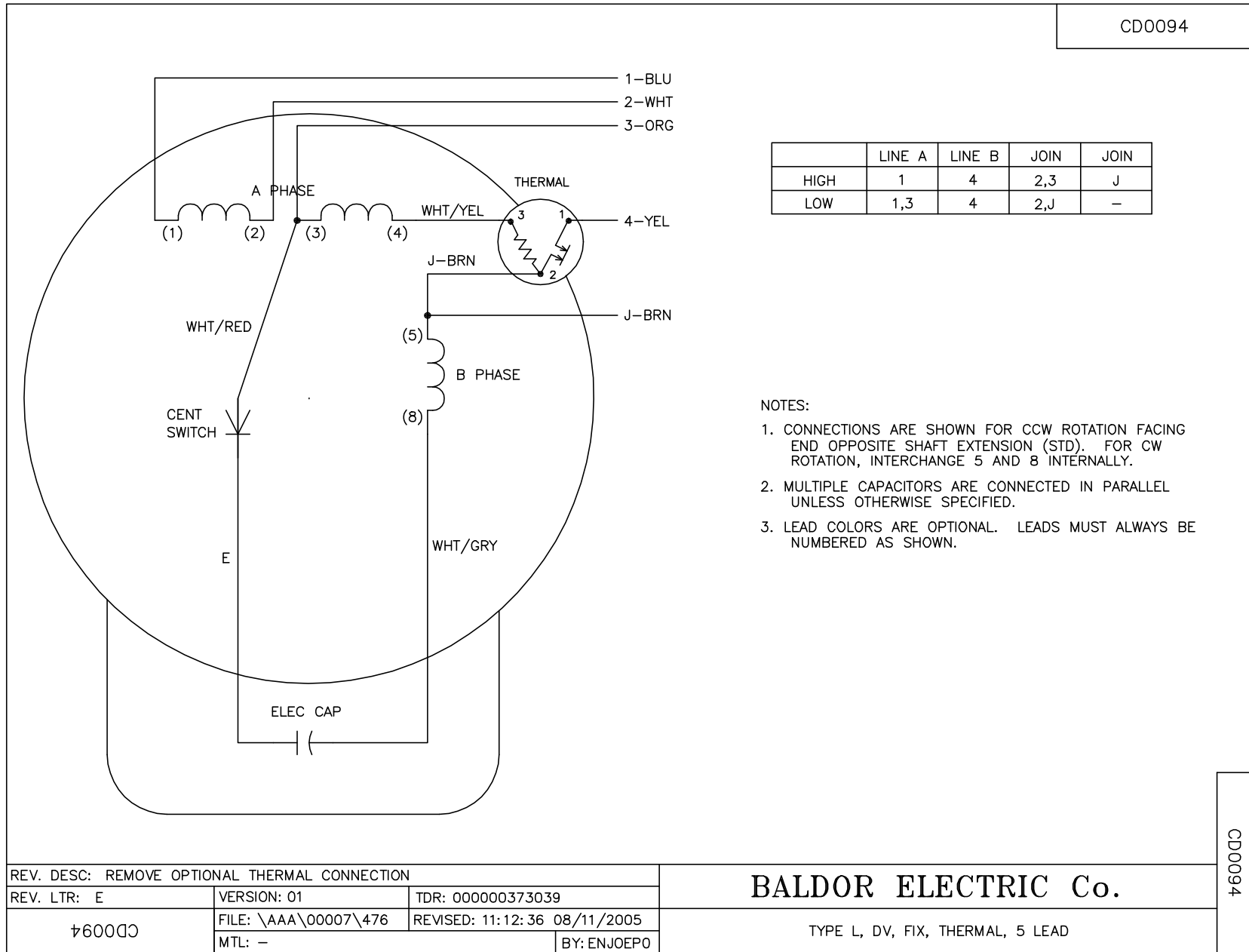
REV. DESC: LOAD TO SOLIDWORKS - REV H			
REV: J	VERSION: 05	REVISED: 11:02:24 12/20/2022	TDR: 000001201165
34LYL052	MODEL NO. 34LYL052	REF: -	
	BY: ENFRAJ0		

**BALDOR - RELIANCE®**

STD HORZ MODEL 34L NEMA 56J TEFC

34LYL052

CD0094



REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: E	VERSION: 01	TDR: 000000373039
CD0094	FILE: \AAA\00007\476	REVISED: 11:12:36 08/11/2005
	MTL: -	BY: ENJOEPO

**BALDOR ELECTRIC Co.**

TYPE L, DV, FIX, THERMAL, 5 LEAD

CD0094