ABB BALDOR RELIANCE

Customer information packet

CJL3501A

.33HP, 1725RPM, 1PH, 60HZ, 56J, 3414L, TEFC, F1
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, 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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	AB
Type	AC
Mech. spec.	34L052
Base	
Status	PRD/A
Elec. spec.	34WG5597
Layout	34LYL052
Eff. date	10-28-2024
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 ES

Nameplate

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

Accessories

Part number	Description	Multiplier
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

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
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. @ 25ºC**	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

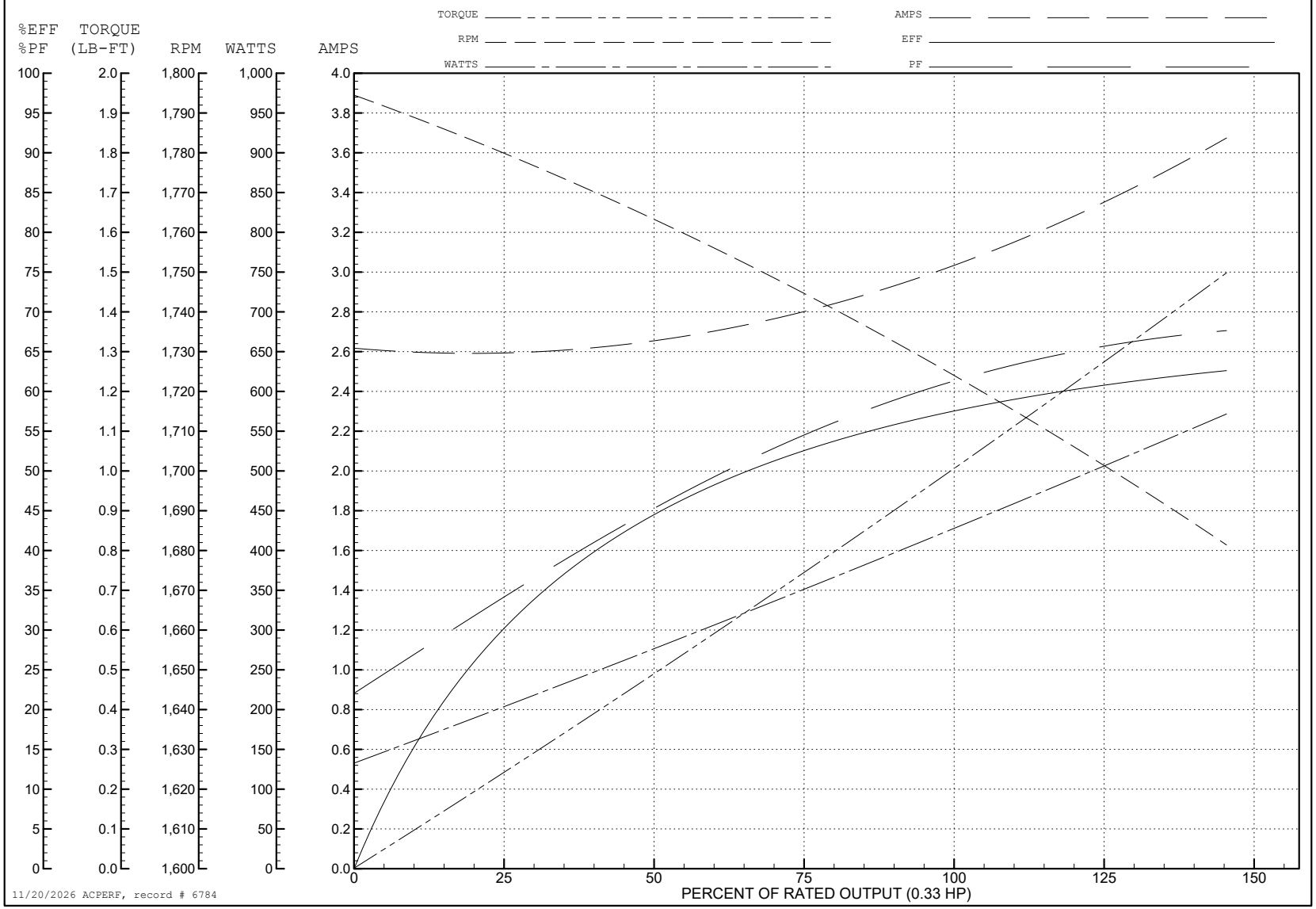
ABB Motors and Mechanical Inc.

WINDING # 34WG5597

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

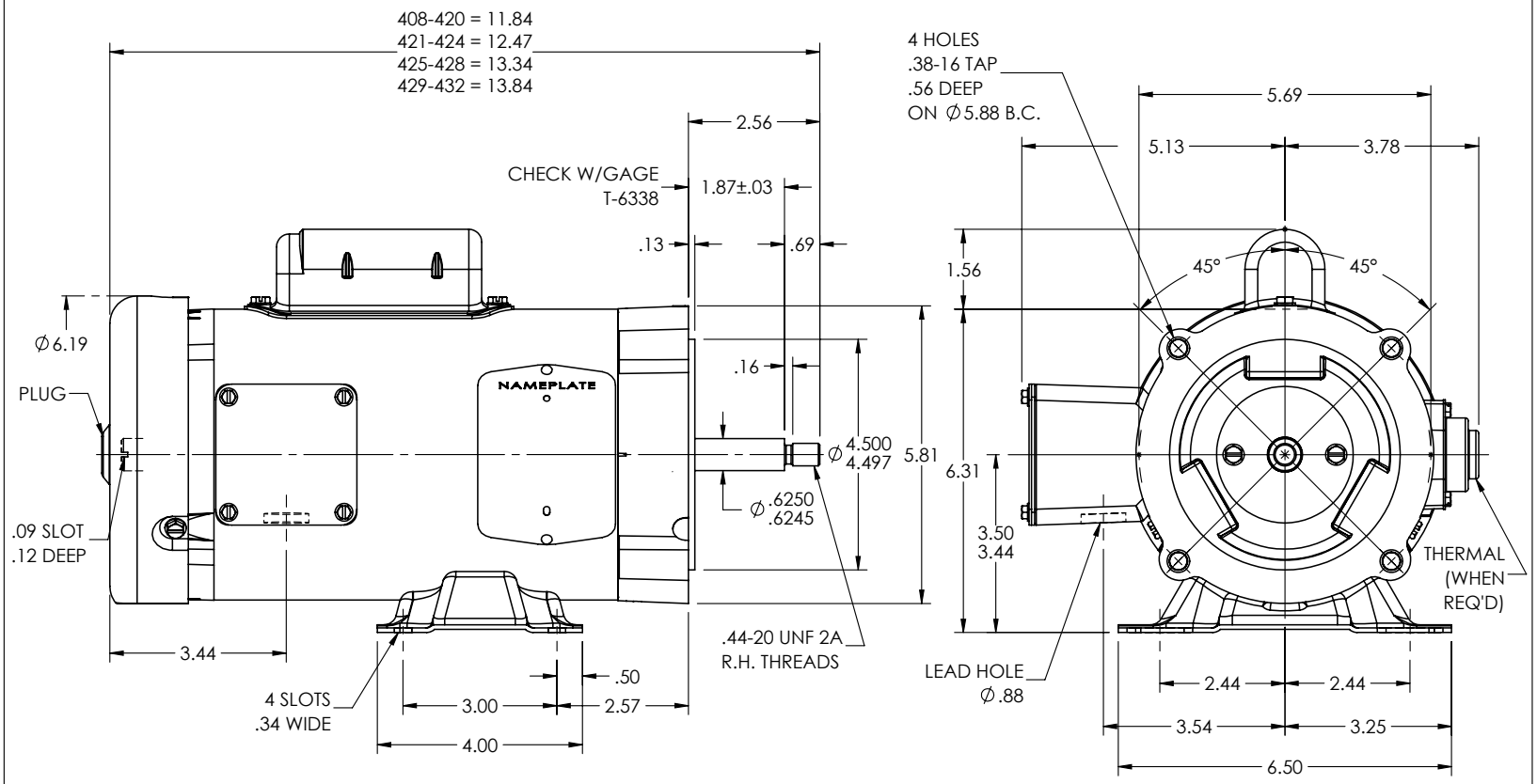
Typical performance - not guaranteed values.

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



11/20/2026 ACPERF, record # 6784

34LYL052



34LYL052

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

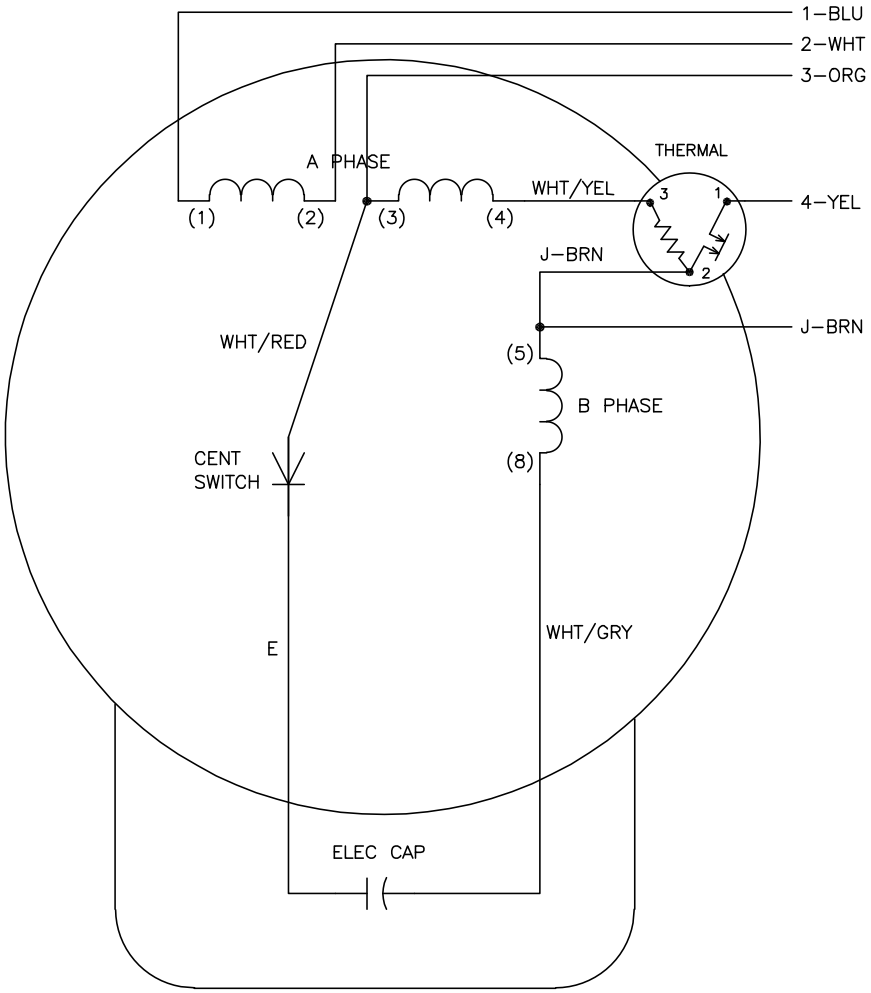
REV. DESC: LOAD TO SOLIDWORKS - REV H			
REV: J	VERSION: 05	REVISED: 11:02:24 12/20/2022	TDR: 000001201165
34LYL052	MODEL NO. 34LYL052		REF: -
	BY: ENFRAJ0		

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STD HORZ MODEL 34L NEMA 56J TEFC

34LYL052

CD0094



	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.

CD0094

REV. DESC: ADD B PH AMPS THRU HTR HVC TO DESCRIPTION		
REV. LTR: F	VERSION: 02	TDR: 000001258306
FILE: \AAA\00007\476	REVISED: 03:40:33 06/18/2025	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, B PH AMPS THRU HTR HVC, 5 LEAD

SH 1 of 1