

**BALDOR • RELIANCE**

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# Customer information packet

## L3501M

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

Class - None

Division - Not Applicable

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9/9/2024 7:13:21 AM

## Specifications

Enclosure	TEFC
Frame	56
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	AF
Type	AC
Mech. spec.	34C061
Base	
Status	PRD/A
Elec. spec.	34WG5598
Layout	34LYC061
Eff. date	12-18-2023
CD Diagram	CD0008
Poles	04
Leads	7#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	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.34 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	Manual Thermal Overload
Winding Thermal 1 Location	SK

**Winding Thermal 2**

**None**

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**Nameplate**

<b>NP1257L</b>									
<b>CAT.NO.</b>	L3501M								
<b>SPEC.</b>	34C61-5598								
<b>HP</b>	.33								
<b>VOLTS</b>	115/230								
<b>AMP</b>	6/3								
<b>RPM</b>	1725								
<b>FRAME</b>	56			<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 # 6786

Typical performance - not guaranteed values

Winding: 34WG5598-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

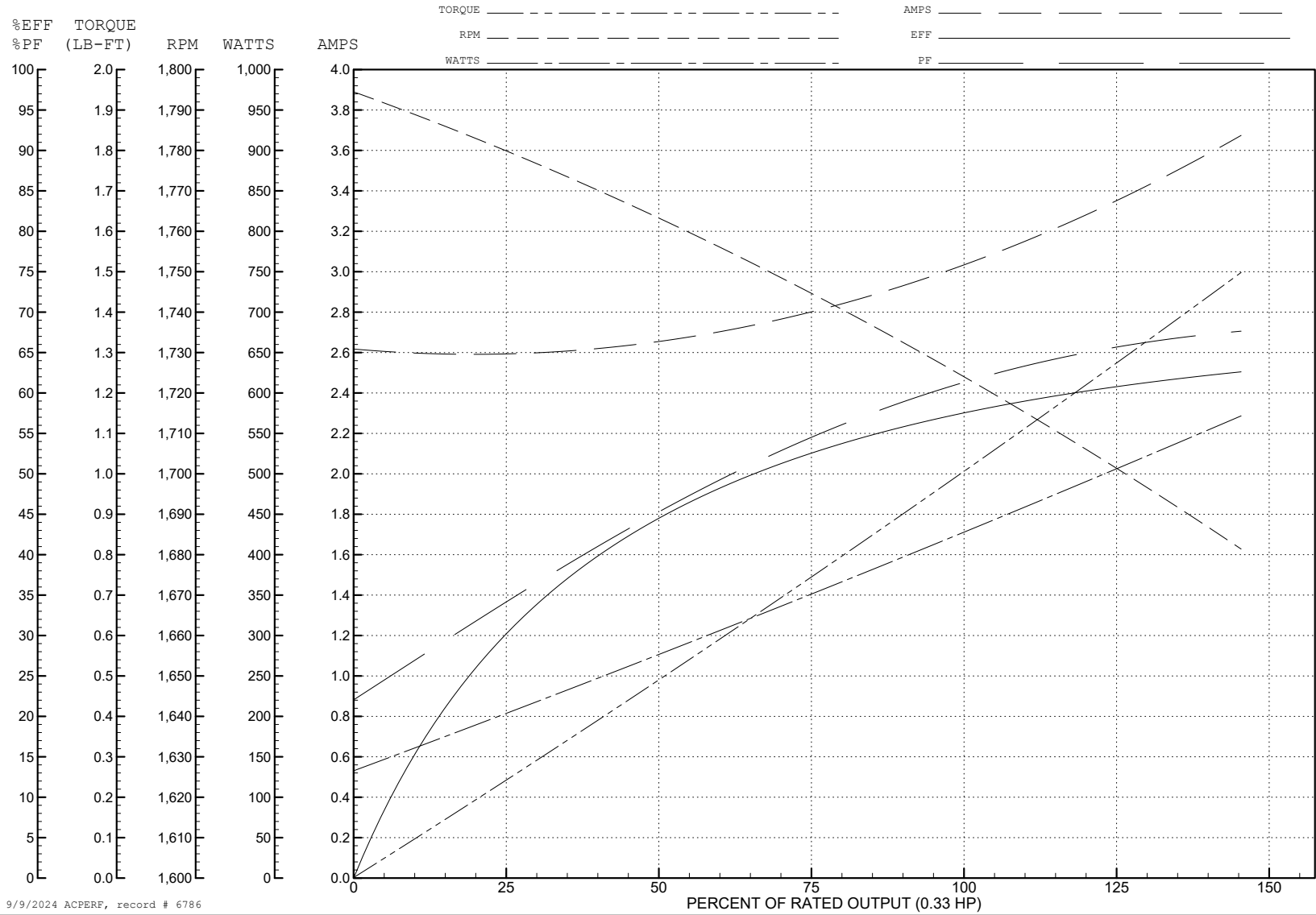
ABB Motors and Mechanical Inc.

WINDING # 34WG5598

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

Typical performance - not guaranteed values.

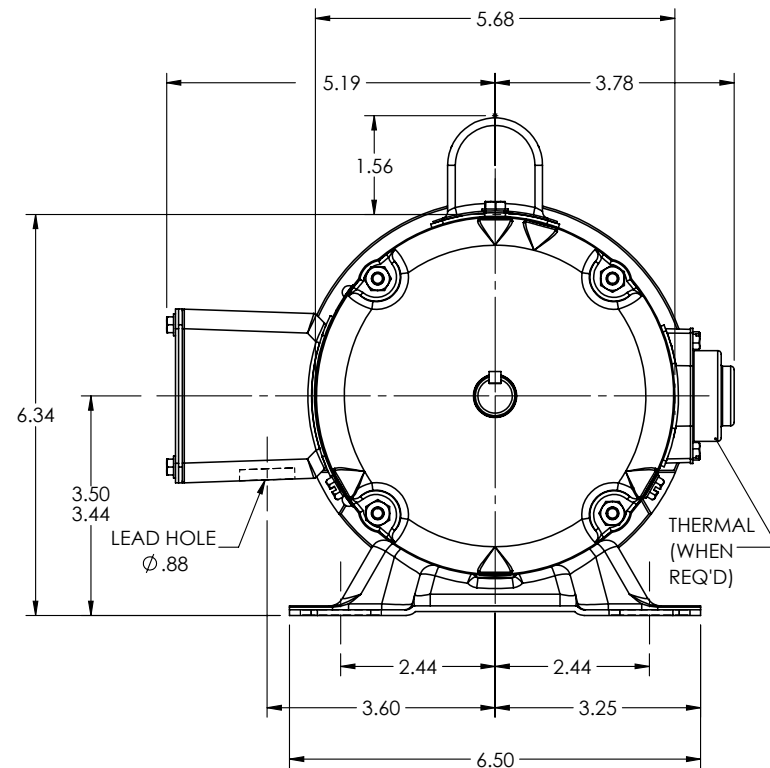
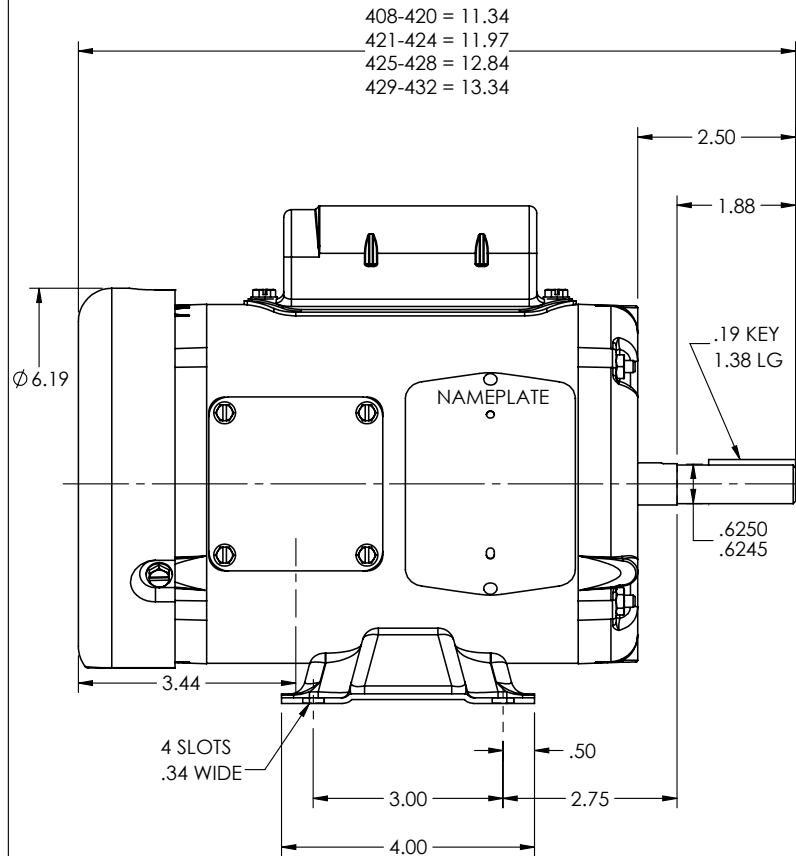
TORQUES (LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13



9/9/2024 ACPERF, record # 6786



34LYC061



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

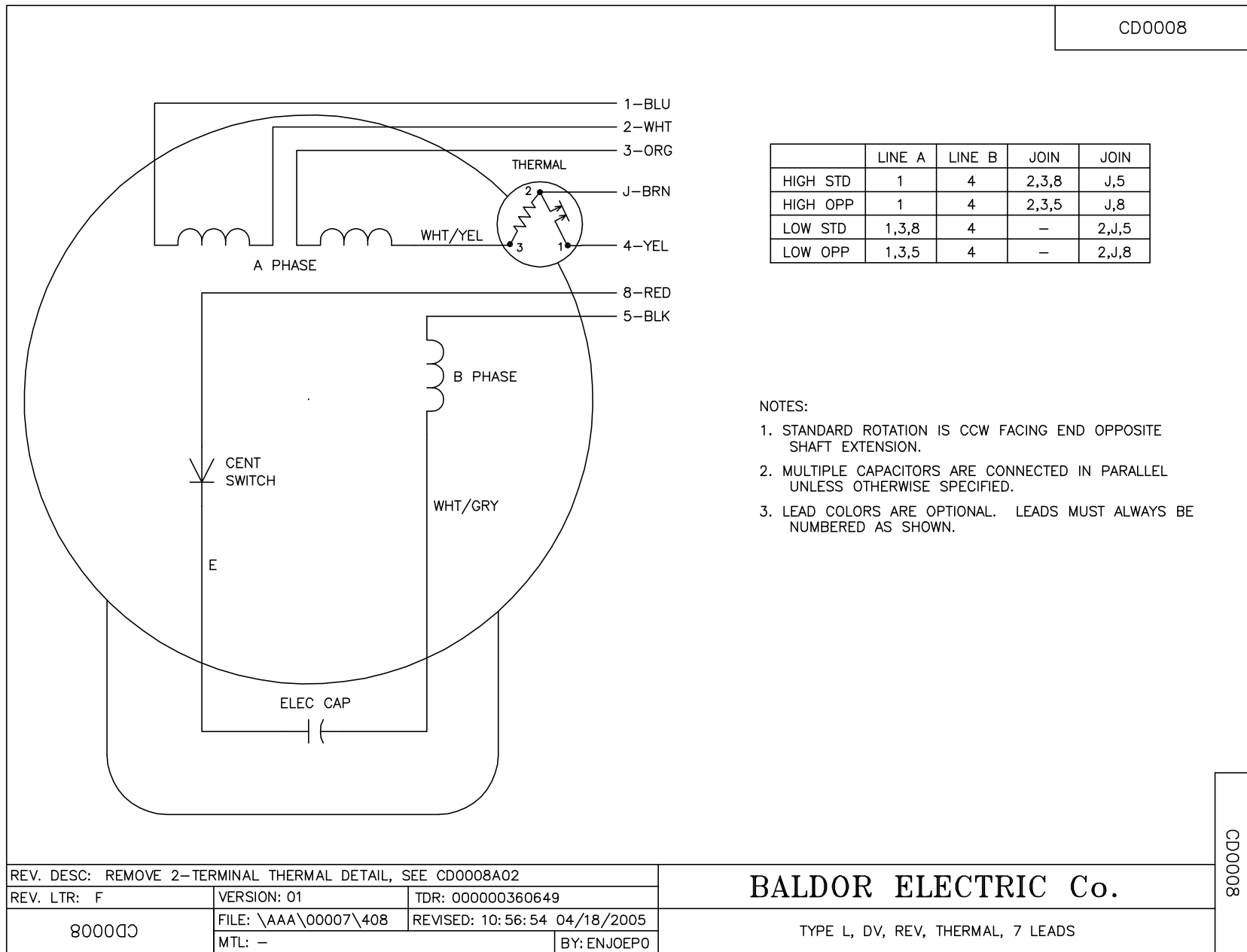
REV. DESC: LOAD TO SOLIDWORKS			
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34LYC061	MODEL NO. 34LYC061	REF: -	
	BY: ENFRAJ0		

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STD HORZ MODEL 34L NEMA 56 TEFC

34LYC061

CD0008



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

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
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 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: -	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008