

**BALDOR • RELIANCE**

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# Customer information packet

## VL3506A

.75HP, 3450RPM, 1PH, 60HZ, 56C, 3424L, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	56C
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	CSA UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	9.600 A @ 115.0 V 4.800 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.8 a

## Part detail

Revision	R
Type	AC
Mech. spec.	34K043
Base	
Status	PRD/A
Elec. spec.	34WG3514
Layout	34LYK043
Eff. date	01-13-2025
CD Diagram	CD0008
Poles	02
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	01-13-2006

<b>Insulation Class</b>	B
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	K
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	6 @ 18 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3424L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	11.97 IN
<b>Power Factor</b>	74
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	C-Face
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.25
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	3450 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	Do Not Use Eve-Not Valid
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Automatic Thermal Overload
<b>Winding Thermal 1 Location</b>	SB

**Winding Thermal 2**

**None**

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**Nameplate**

<b>NP1257L</b>	
<b>CAT.NO.</b>	VL3506A
<b>SPEC.</b>	34K043-3514
<b>HP</b>	.75
<b>VOLTS</b>	115/230
<b>AMP</b>	9.6/4.8
<b>RPM</b>	3450
<b>FRAME</b>	56C <b>HZ</b> 60 <b>PH</b> 1
<b>SER.F.</b>	1.25 <b>CODE</b> K <b>DES</b> N <b>CL</b> B
<b>NEMA-NOM-EFF</b>	66 <b>PF</b> 74
<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 11.4/5.7

**AC Induction Motor Performance Data**

Record # 6691

Typical performance - not guaranteed values

<b>Winding: 34WG3514-R001</b>		<b>Type: 3424L</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.75		<b>Full Load Torque</b>	1.15 LB-FT	
<b>Volts</b>	115/230		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	9.6/4.8		<b>Breakdown Torque</b>	3.5 LB-FT	
<b>R.P.M.</b>	3450		<b>Pull-up Torque</b>	2.7 LB-FT	
<b>Hz</b>	<b>60 Phase</b>	1	<b>Locked-rotor Torque</b>	3.7 LB-FT	
<b>NEMA Design Code</b>	<b>N KVA Code</b>	K	<b>Starting Current</b>	28 A	
<b>Service Factor (S.F.)</b>	1.25		<b>No-load Current</b>	3.5 A	
<b>NEMA Nom. Eff.</b>	<b>66 Power Factor</b>	74	<b>Line-line Res. @ 25°C</b>	2.5 Ω A Ph 2.5 Ω B Ph	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	78°C	
<b>S.F. Amps</b>	11.4/5.7		<b>Temp. Rise @ S.F. Load</b>	92°C	

**Load Characteristics 230 V, 60 Hz, 0.75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	36	51	62	70	76	81	76
<b>Efficiency</b>	47.2	61.1	66.5	68.7	68.7	66.7	68.7
<b>Speed</b>	3561	3534	3500	3464	3421	3365	3421
<b>Line amperes</b>	3.6	3.9	4.4	5	5.7	6.7	5.7

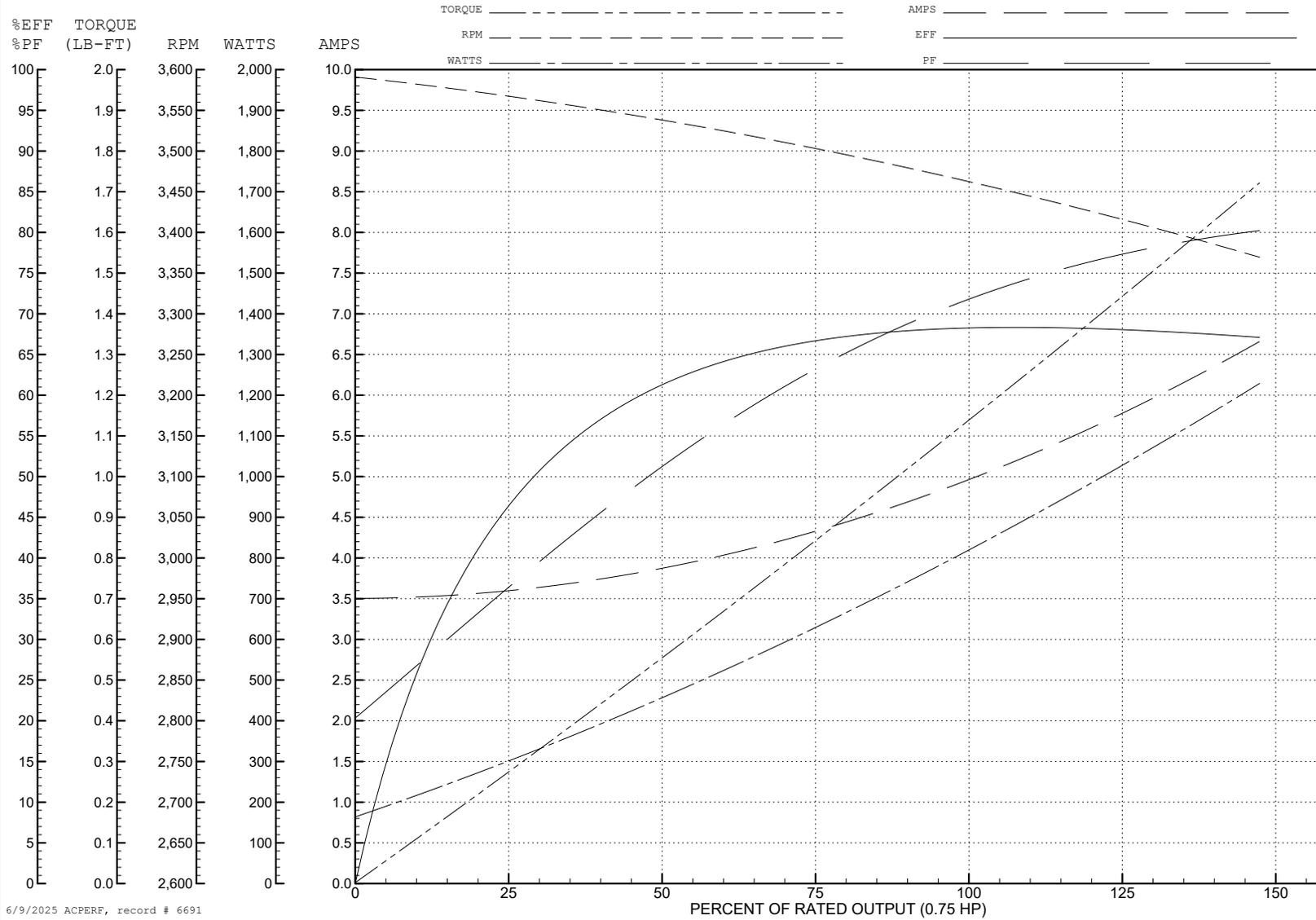
ABB Motors and Mechanical Inc.

WINDING # 34WG3514

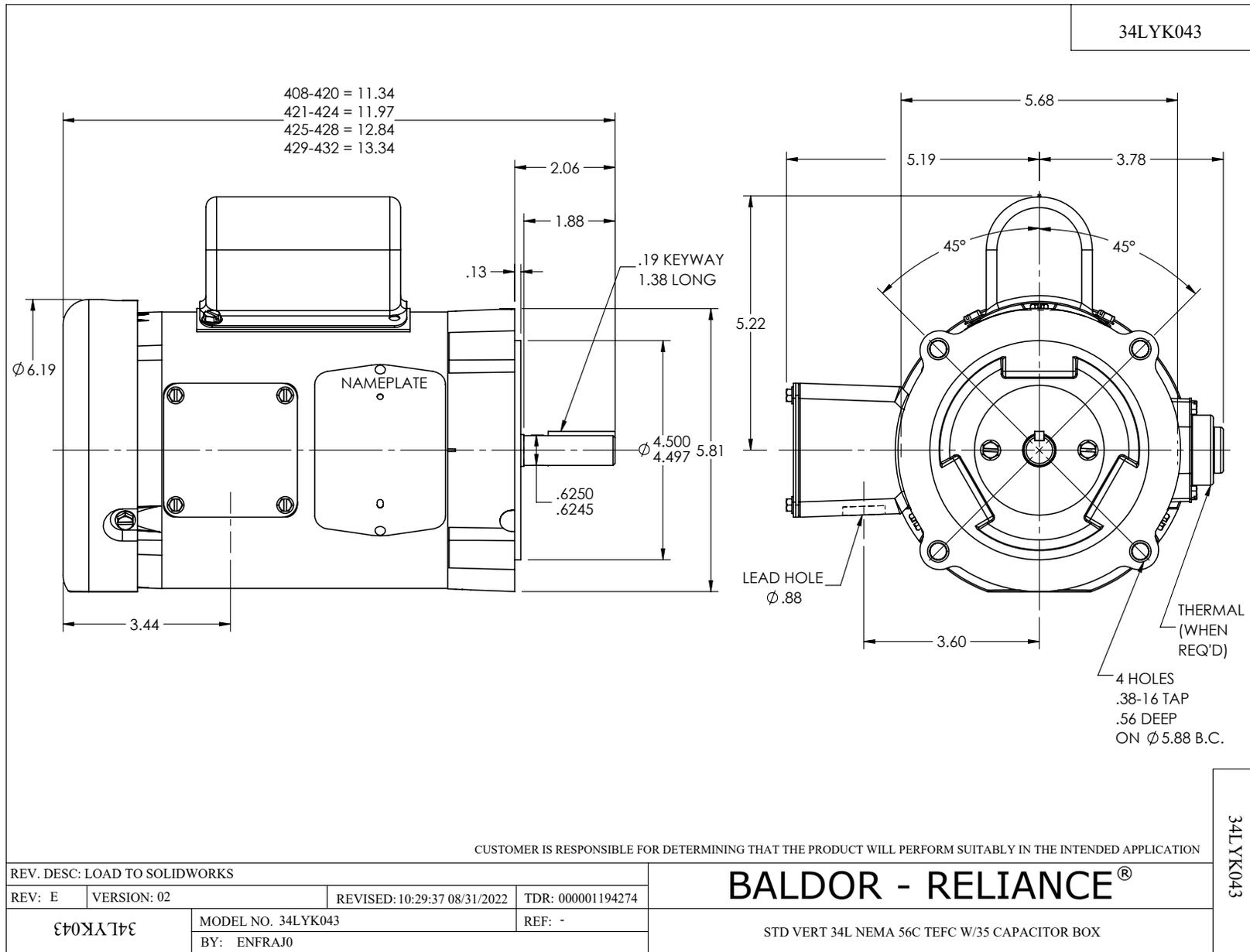
Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3424L

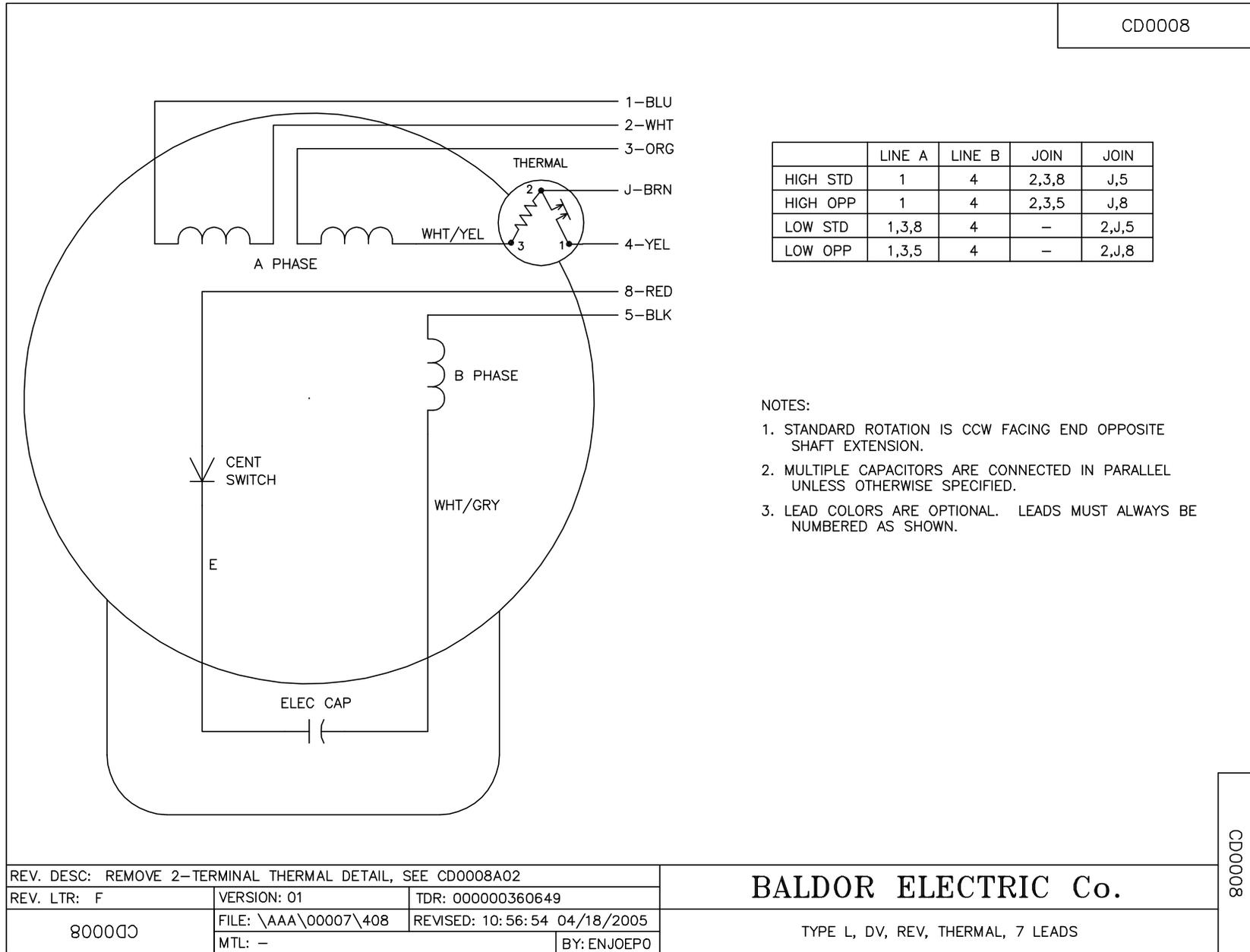
TORQUES (LB-FT): PO=3.5 PU=2.7 LR=3.7 LRA=28



6/9/2025 ACPERF, record # 6691



CD0008



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