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# Customer information packet

## VEL11301

.33HP, 1740RPM, 1PH, 60HZ, 56C, 3418LC, OPEN, F

Class - None

Division - Not Applicable

## Specifications

Enclosure	OPEN
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, Cap 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	CURUSEEV
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	1.700 A @ 230.0 V 2.500 A @ 208.0 V 3.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a

## Part detail

Revision	J
Type	AC
Mech. spec.	34F534
Base	
Status	PRD/A
Elec. spec.	34WGW954
Layout	34LYF534
Eff. date	05-16-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	10-08-2014

<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>	3418LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	11.85 IN
<b>Power Factor</b>	85
<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>	1.35
<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>	1740 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>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	None
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP3155L</b>									
<b>CAT.NO.</b>	VEL11301								
<b>SPEC.</b>	34F534W954G1								
<b>HP</b>	.33								
<b>VOLTS</b>	115/230								
<b>AMP</b>	3.4/1.7								
<b>RPM</b>	1740								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	1		
<b>SER.F.</b>	1.35	<b>CODE</b>	K	<b>DES</b>	N	<b>CL</b>	B		
<b>F.L. AVG. EFF.</b>	72.4	<b>PF</b>	85						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6203		<b>ODE</b>	6203					
<b>ENCL</b>	OPEN	<b>SN</b>							
	SFA 4.4/2.2								

**AC Induction Motor Performance Data**

Record # 49395

Typical performance - not guaranteed values

Winding: 34WGW954-R004		Type: 3418LC	Enclosure: OPEN	
<b>Nameplate Data</b>			<b>115 V, 60 Hz: Low Voltage Connection</b>	
Rated Output (HP)	.33	Full Load Torque	0.99 LB-FT	
Volts	115/230	Start Configuration	direct on line	
Full Load Amps	3.4/1.7	Breakdown Torque	2.46 LB-FT	
R.P.M.	1740	Pull-up Torque	2.33 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque	3.94 LB-FT
NEMA Design Code	N KVA Code	K	Starting Current	24.5 A
Service Factor (S.F.)	1.35	No-load Current	1.57 A	
NEMA Nom. Eff.	72.4 Power Factor	85	Line-line Res. @ 25°C	1.8255 Ω A Ph 5.5445 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	29°C	
S.F. Amps	4.4/2.2	Temp. Rise @ S.F. Load	42°C	

**Load Characteristics 115 V, 60 Hz, 0.33 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	74	81	86	88	90	89
Efficiency	42.7	67.4	74.2	74.6	74.2	72.5	73.5
Speed	1781.1	1772.5	1759.4	1742.5	1721.5	1700.5	1713
Line amperes	1.86	2.15	2.64	3.31	4.09	4.89	4.41

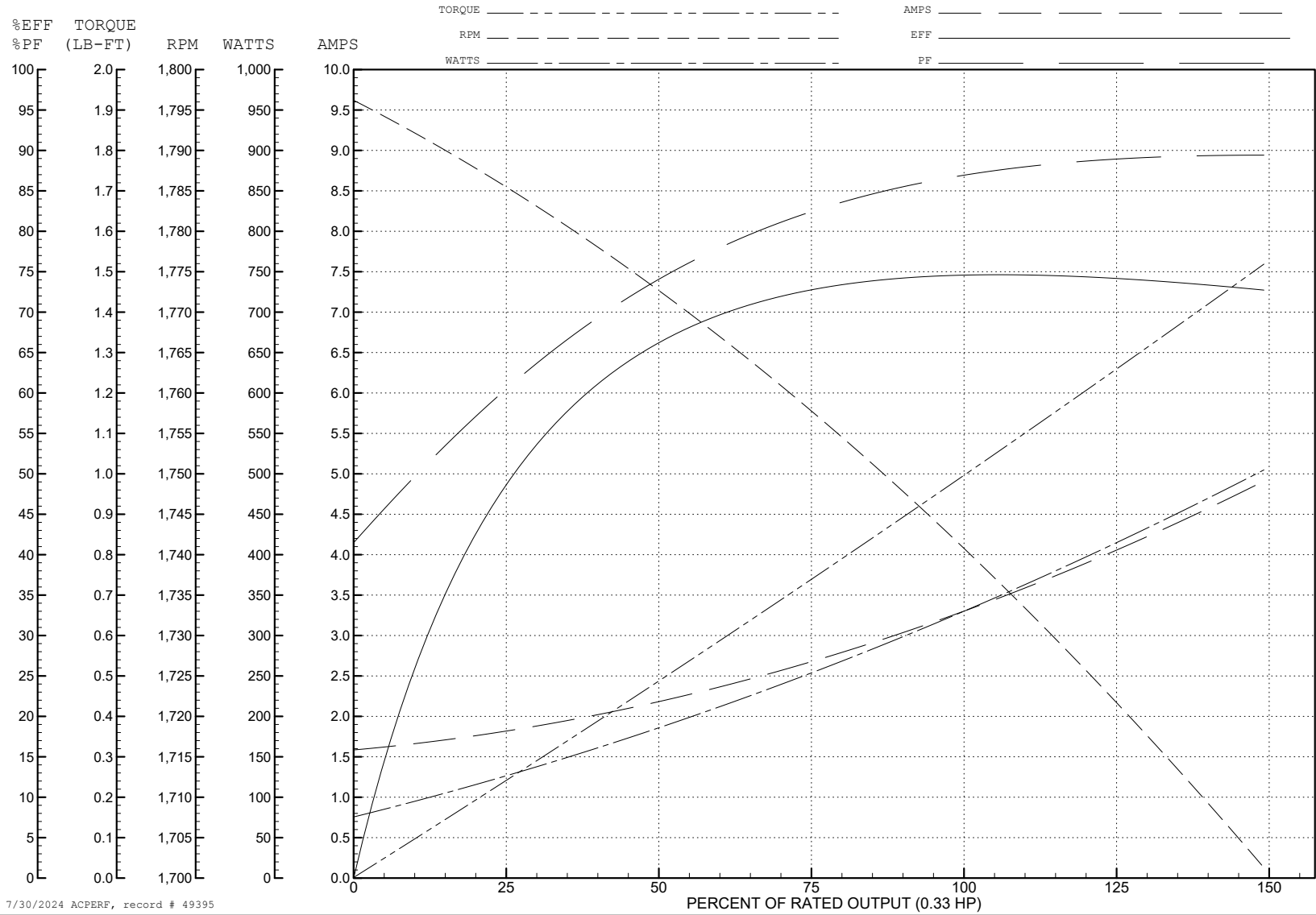
ABB Motors and Mechanical Inc.

WINDING # 34WGW954

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1740 RPM 115 V 3418LC

TORQUES (LB-FT): PO=2.46 PU=2.33 LR=3.94 LRA=24.5



7/30/2024 ACPERF, record # 49395

**AC Induction Motor Performance Data**

Record # 49397

Typical performance - not guaranteed values

<b>Winding:</b> 34WGW954-R004		<b>Type:</b> 3418LC		<b>Enclosure:</b> OPEN	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.33		<b>Full Load Torque</b>	0.99 LB-FT	
<b>Volts</b>	115/230		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	3.4/1.7		<b>Breakdown Torque</b>	2.46 LB-FT	
<b>R.P.M.</b>	1740		<b>Pull-up Torque</b>	2.08 LB-FT	
<b>Hz</b>	<b>60 Phase</b>	<b>1</b>	<b>Locked-rotor Torque</b>	3.51 LB-FT	
<b>NEMA Design Code</b>	<b>N KVA Code</b>	<b>K</b>	<b>Starting Current</b>	12.36 A	
<b>Service Factor (S.F.)</b>	1.35		<b>No-load Current</b>	0.794 A	
<b>NEMA Nom. Eff.</b>	<b>72.4 Power Factor</b>	<b>85</b>	<b>Line-line Res. @ 25°C</b>	1.75 Ω A Ph 5.76 Ω B Ph	
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	30°C	
<b>S.F. Amps</b>	4.4/2.2		<b>Temp. Rise @ S.F. Load</b>	40°C	
			<b>Rotor inertia</b>	0.0428 LB-FT <sup>2</sup>	

**Load Characteristics 230 V, 60 Hz, 0.33 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>	66	74	82	86	88	90	89
<b>Efficiency</b>	41.8	66.8	73.5	74.3	73.8	72.1	73.1
<b>Speed</b>	1781	1773	1759	1743	1722	1700	1713
<b>Line amperes</b>	0.941	1.09	1.33	1.67	2.06	2.46	2.22

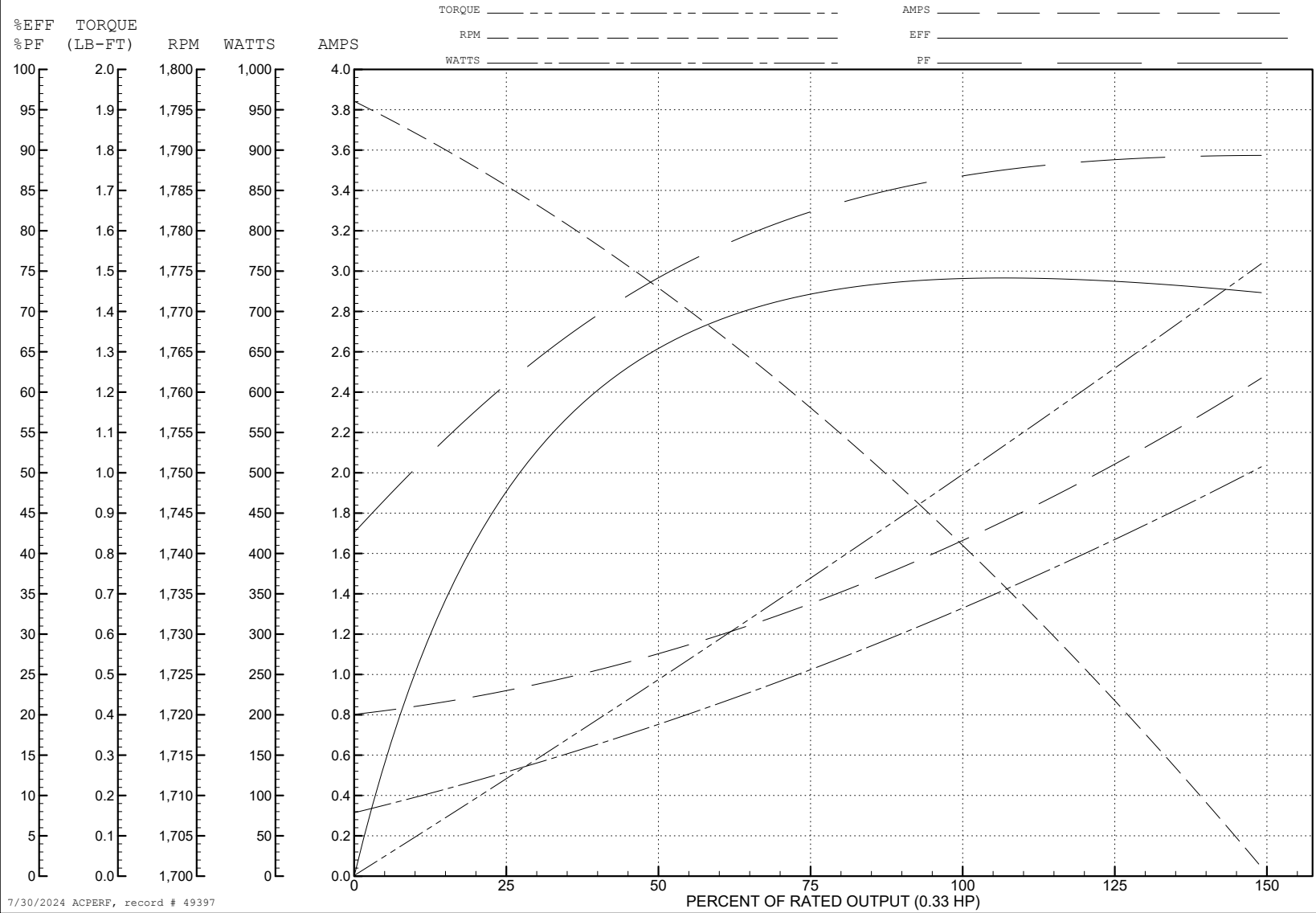
ABB Motors and Mechanical Inc.

WINDING # 34WGW954

Typical performance - not guaranteed values.

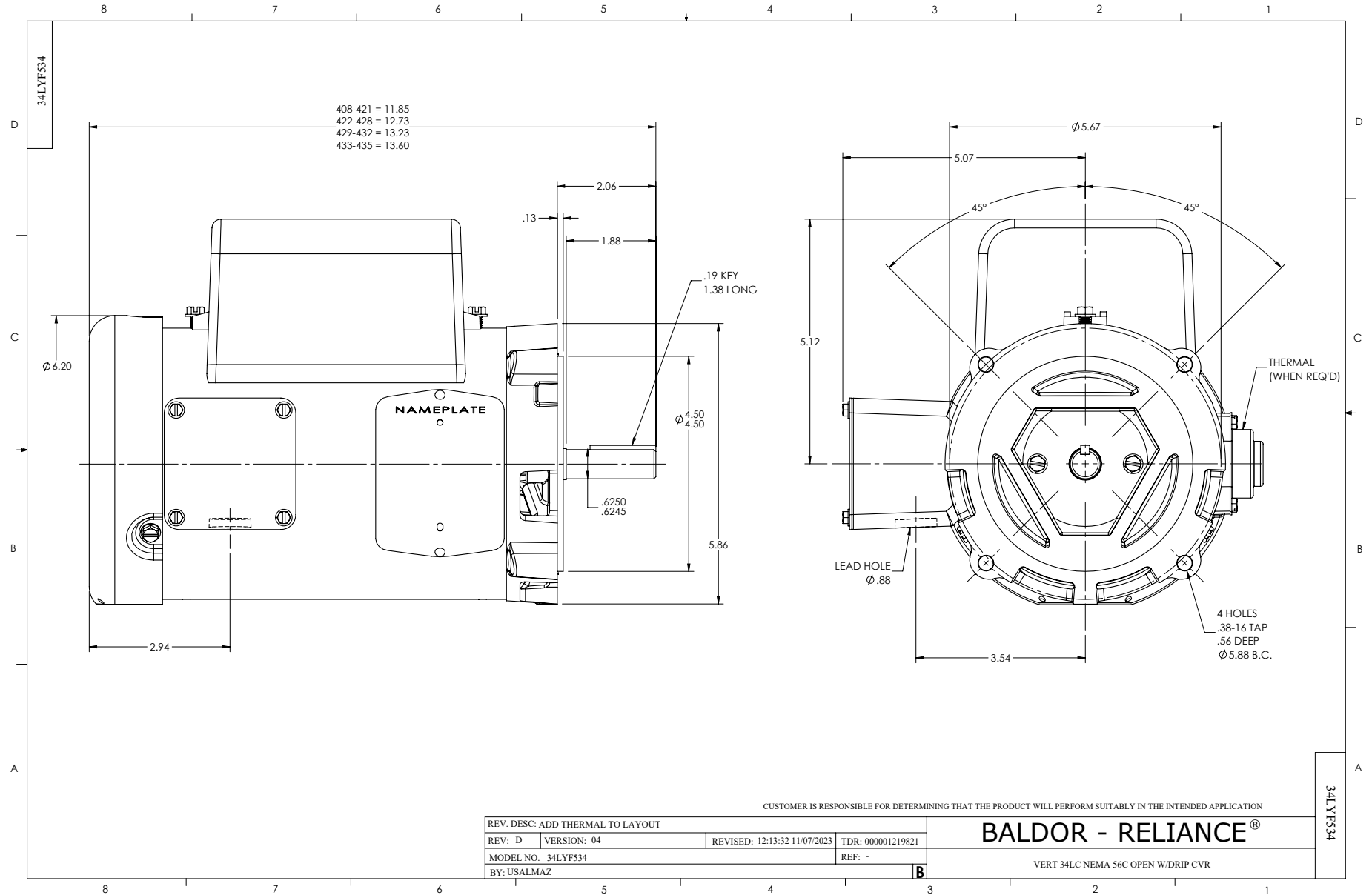
0.33 HP 1 PH 60 HZ 1740 RPM 230 V 3418LC

TORQUES (LB-FT): PO=2.46 PU=2.08 LR=3.51 LRA=12.36

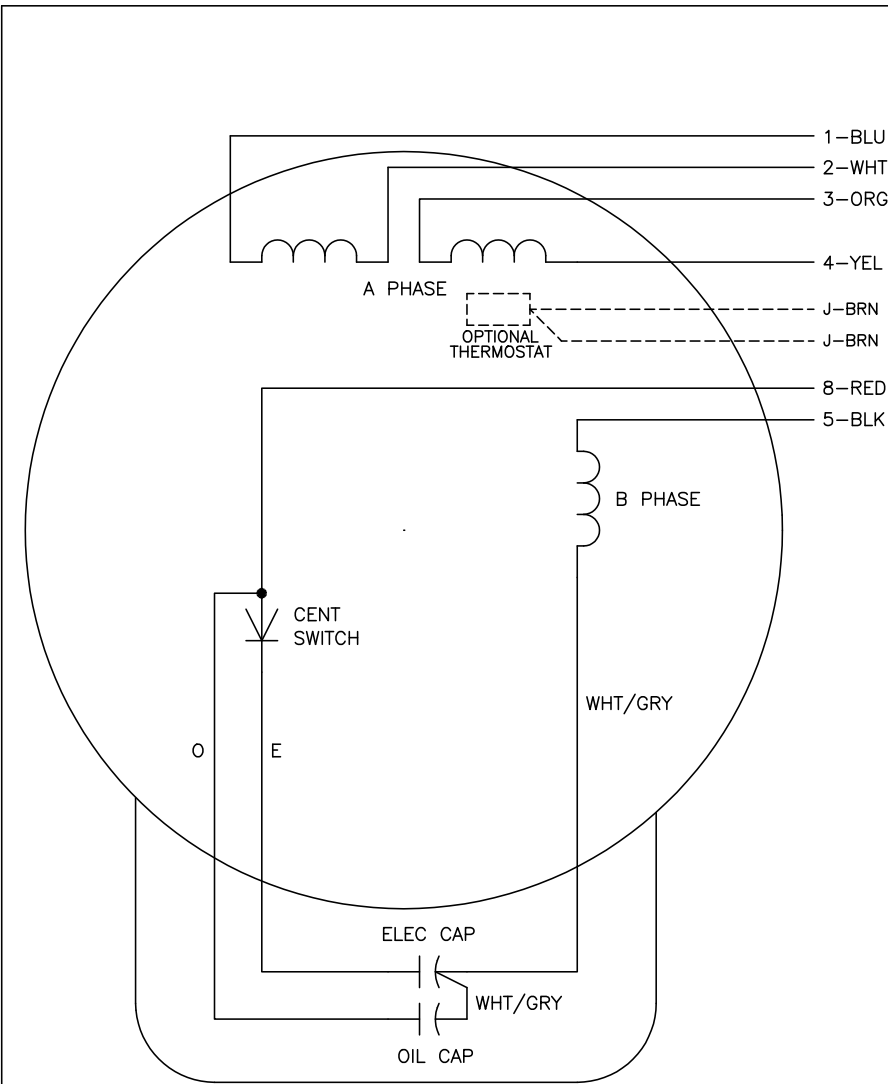


7/30/2024 ACPERF, record # 49397





CD0055



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

**NOTES:**

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
C00000		FILE: AAA00007414	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE LC, DV, REV, 6 LEADS

CD0055