Customer information packet

VEL11301

.33HP, 1740RPM, 1PH, 60HZ, 56C, 3418LC, OPEN, F
Class - None
Division - Not Applicable

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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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary 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	M
Type	AC
Mech. spec.	34F534
Base	
Status	PRD/A
Elec. spec.	34WGW954
Layout	34LYF534
Eff. date	09-15-2026
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	10-08-2014

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.85 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
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	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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	None
Winding Thermal 2	None

Nameplate

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

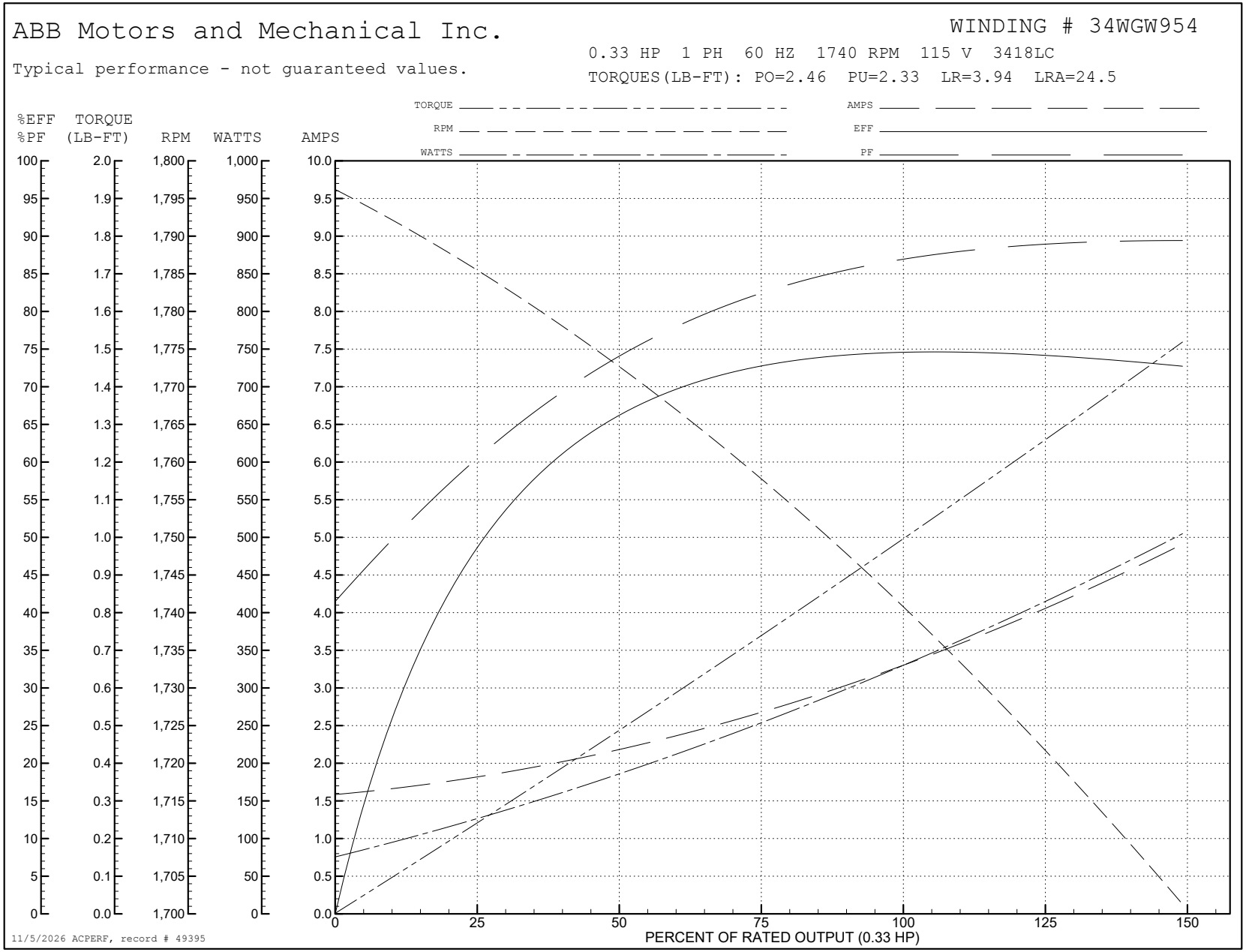
AC Induction Motor Performance Data
Record # 49395
Typical performance - not guaranteed values

Winding: 34WGW954-R004	**Type:** 3418LC	**Enclosure:** OPEN

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
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. @ 25ºC**	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
0.33 HP 1 PH 60 HZ 1740 RPM 115 V 3418LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=2.46 PU=2.33 LR=3.94 LRA=24.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/5/2026 ACPERF, record # 49395

AC Induction Motor Performance Data
Record # 49397
Typical performance - not guaranteed values

Winding: 34WGW954-R004	**Type:** 3418LC	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
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**	2.08 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.51 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	12.36 A
Service Factor (S.F.)			1.35	**No-load Current**	0.794 A
NEMA Nom. Eff.	72.4	**Power Factor**	85	**Line-line Res. @ 25ºC**	1.75 Ω A Ph 5.76 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	30°C
S.F. Amps			4.4/2.2	**Temp. Rise @ S.F. Load**	40°C
				Rotor inertia	0.0428 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	66	74	82	86	88	90	89
Efficiency	41.8	66.8	73.5	74.3	73.8	72.1	73.1
Speed	1781	1773	1759	1743	1722	1700	1713
Line amperes	0.941	1.09	1.33	1.67	2.06	2.46	2.22

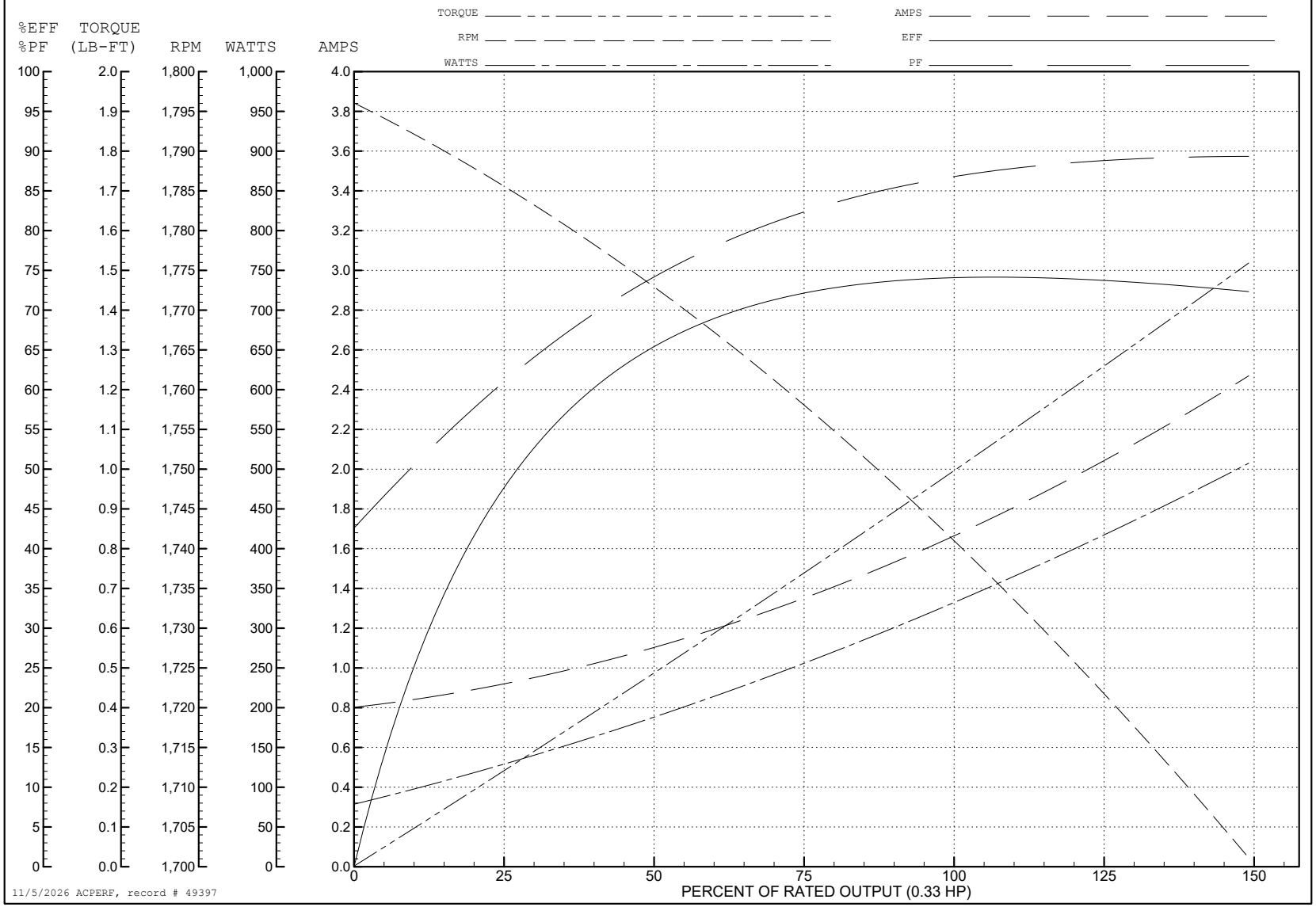
ABB Motors and Mechanical Inc.

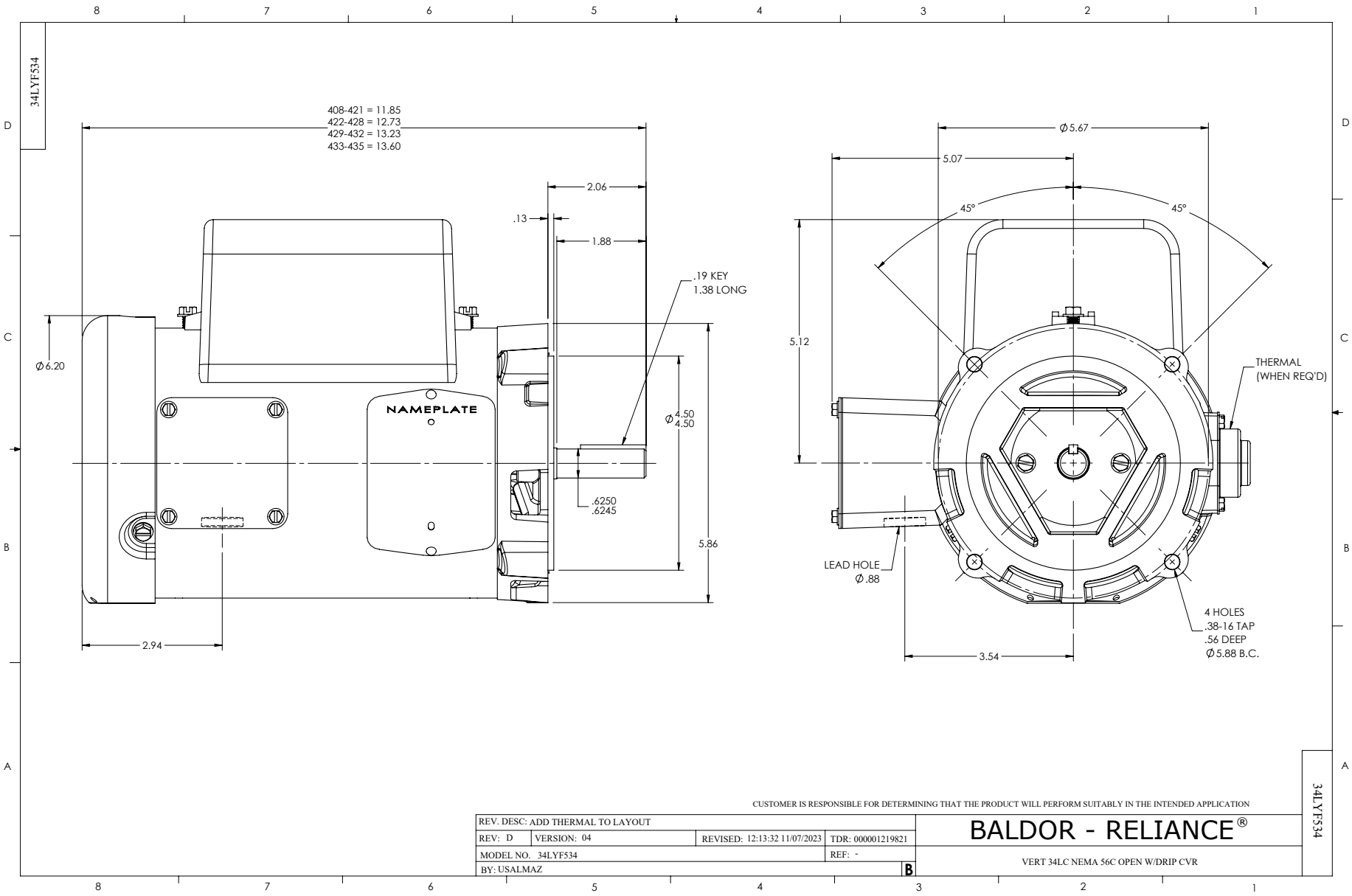
WINDING # 34WGW954

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

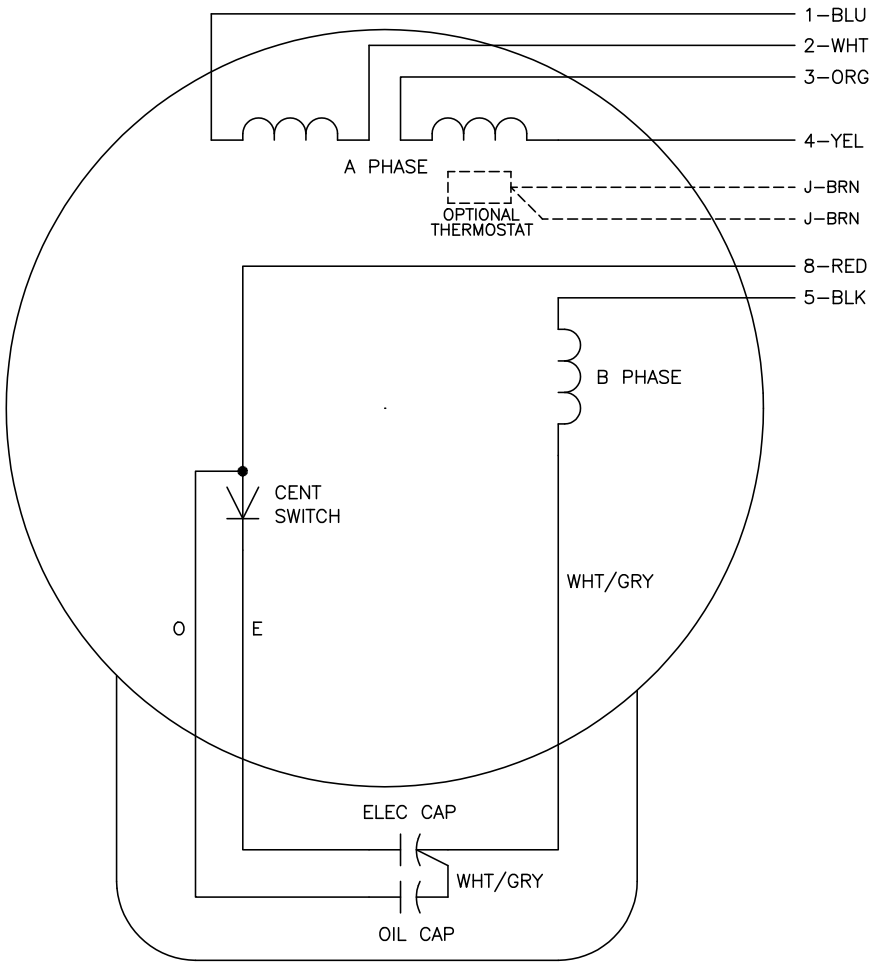
Typical performance - not guaranteed values.

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




34LYF534
408-421 = 11.85
422-428 = 12.73
429-432 = 13.23
433-435 = 13.60
2.06
.13
1.88
.19 KEY
1.38 LONG
Ø6.20
NAMEPLATE
Ø4.50
4.50
.6250
.6245
5.86
2.94
Ø5.67
5.07
45°
45°
5.12
THERMAL
(WHEN REQ'D)
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
3.54
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL TO LAYOUT
REV: D
VERSION: 04
REVISED: 12:13:32 11/07/2023
TDR: 000001219821
MODEL NO. 34LYF534
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
VERT 34LC NEMA 56C OPEN W/DRIP CVR
34LYF534

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.

CD0055

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:17	TDR: 0178636
CD0055		FILE: AAA00007414	MDL: –
		MTL: –	TYPE LC, DV, REV, 6 LEADS