

**BALDOR • RELIANCE**

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# Customer information packet

## VUHL3518

.5/.37KWHP, 1740RPM, 1PH, 60HZ, 56C, 3518LC, T

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, Cap Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US CE CURUS UKCA WEEE
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	6.200 A @ 115.0 V 3.100 A @ 230.0 V 3.100 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated

## Part detail

Revision	B
Type	AC
Mech. spec.	35E022
Base	
Status	PRD/A
Elec. spec.	35WGG588
Layout	35LYE022
Eff. date	05-07-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	10-09-2023

<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	3.1 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	N
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<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>	3518LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	13.23 IN
<b>Power Factor</b>	72
<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>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.625 IN
<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

**Winding Thermal 2**

**None**

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**Nameplate**

<b>NP1372L</b>										
<b>CAT.NO.</b>	VUHL3518									
<b>SPEC.</b>	35E022G588									
<b>HP</b>	.5/.37KW									
<b>VOLTS</b>	115/208-230									
<b>AMP</b>	6.2/3.1									
<b>R.P.M. (1/MIN)</b>	1740									
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	1			
<b>SER.F.</b>	1.15	<b>CODE</b>	N	<b>DES</b>	N	<b>CL</b>	F			
<b>NEMA-NOM-EFF</b>	72	<b>PF</b>	72							
<b>RATING</b>	40C AMB-S1 CONT									
<b>CC</b>			IP44 IC411 13KG							
<b>DE</b>	6205		<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>								
	IE2-60HZ 69.9(75%),62.5(50%)									

**AC Induction Motor Performance Data**

Record # 101468

Typical performance - not guaranteed values

Winding: 35WGG588-R001		Type: 3518LC	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	.5	Full Load Torque	1.509 LB-FT	
Volts	115/208-230	Start Configuration	direct on line	
Full Load Amps	6.2/3.1	Breakdown Torque	4.66 LB-FT	
R.P.M.	1740	Pull-up Torque	3.43 LB-FT	
Hz	60 Phase	Locked-rotor Torque	7.79 LB-FT	
NEMA Design Code	N KVA Code	Starting Current	25.3 A	
Service Factor (S.F.)	1.15	No-load Current	2.25 A	
NEMA Nom. Eff.	72 Power Factor	Line-line Res. @ 25°C	4.0719 Ω A Ph 1.6063 Ω B Ph	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	39°C	
S.F. Amps	6.6/3.5-3.3	Temp. Rise @ S.F. Load	44°C	

**Load Characteristics 230 V, 60 Hz, 0.5 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	53	64	72	78	83	76
Efficiency	46.3	62.5	69.9	73.2	74.2	73.6	73.8
Speed	1781.7	1768.9	1755.3	1740.7	1723.7	1704.2	1730
Line amperes	2.29	2.46	2.72	3.06	3.49	4	3.32

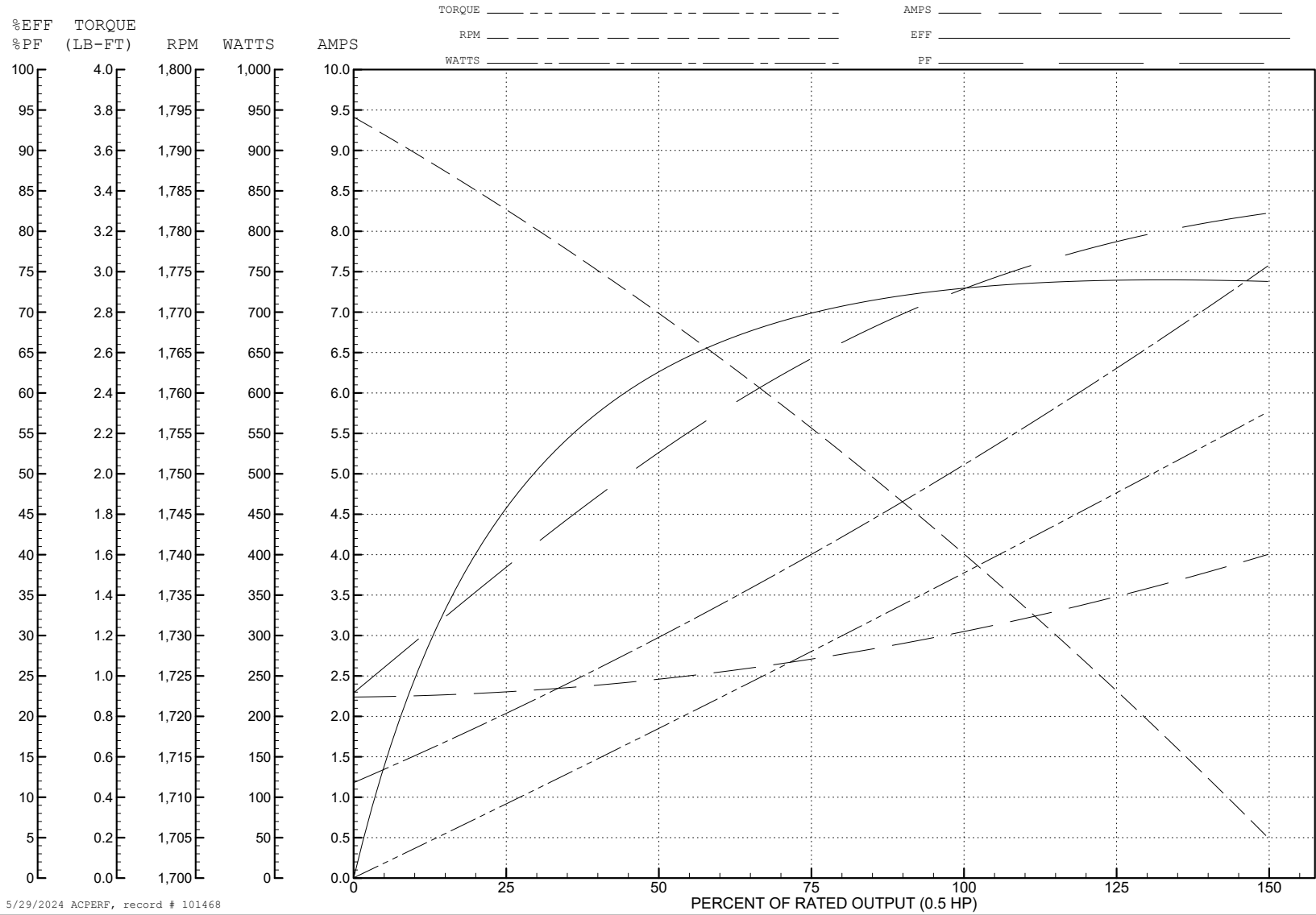
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 230 V 3518LC

TORQUES (LB-FT): PO=4.66 PU=3.43 LR=7.79 LRA=25.3



5/29/2024 ACPERF, record # 101468

**AC Induction Motor Performance Data**

Record # 101469

Typical performance - not guaranteed values

<b>Winding: 35WGG588-R001</b>		<b>Type: 3518LC</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>208 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	.5		<b>Full Load Torque</b>	1.514 LB-FT	
<b>Volts</b>	115/208-230		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	6.2/3.1		<b>Breakdown Torque</b>	3.86 LB-FT	
<b>R.P.M.</b>	1740		<b>Pull-up Torque</b>	2.78 LB-FT	
<b>Hz</b>	<b>60 Phase</b>	<b>1</b>	<b>Locked-rotor Torque</b>	5.71 LB-FT	
<b>NEMA Design Code</b>	<b>N</b>	<b>KVA Code</b>	<b>N</b>	<b>Starting Current</b>	22.1 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	1.85 A	
<b>NEMA Nom. Eff.</b>	<b>72</b>	<b>Power Factor</b>	<b>72</b>	<b>Line-line Res. @ 25°C</b>	4.0972 Ω A Ph 1.6154 Ω B Ph
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>	34°C	
<b>S.F. Amps</b>	6.6/3.5-3.3		<b>Temp. Rise @ S.F. Load</b>	40°C	

**Load Characteristics 208 V, 60 Hz, 0.5 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>	45	61	72	79	84	87	82
<b>Efficiency</b>	51.2	66.3	71.8	73.5	72.6	70.3	73
<b>Speed</b>	1778.5	1763	1745.6	1726.2	1701.3	1672.7	1711
<b>Line amperes</b>	1.95	2.21	2.58	3.05	3.66	4.36	3.42



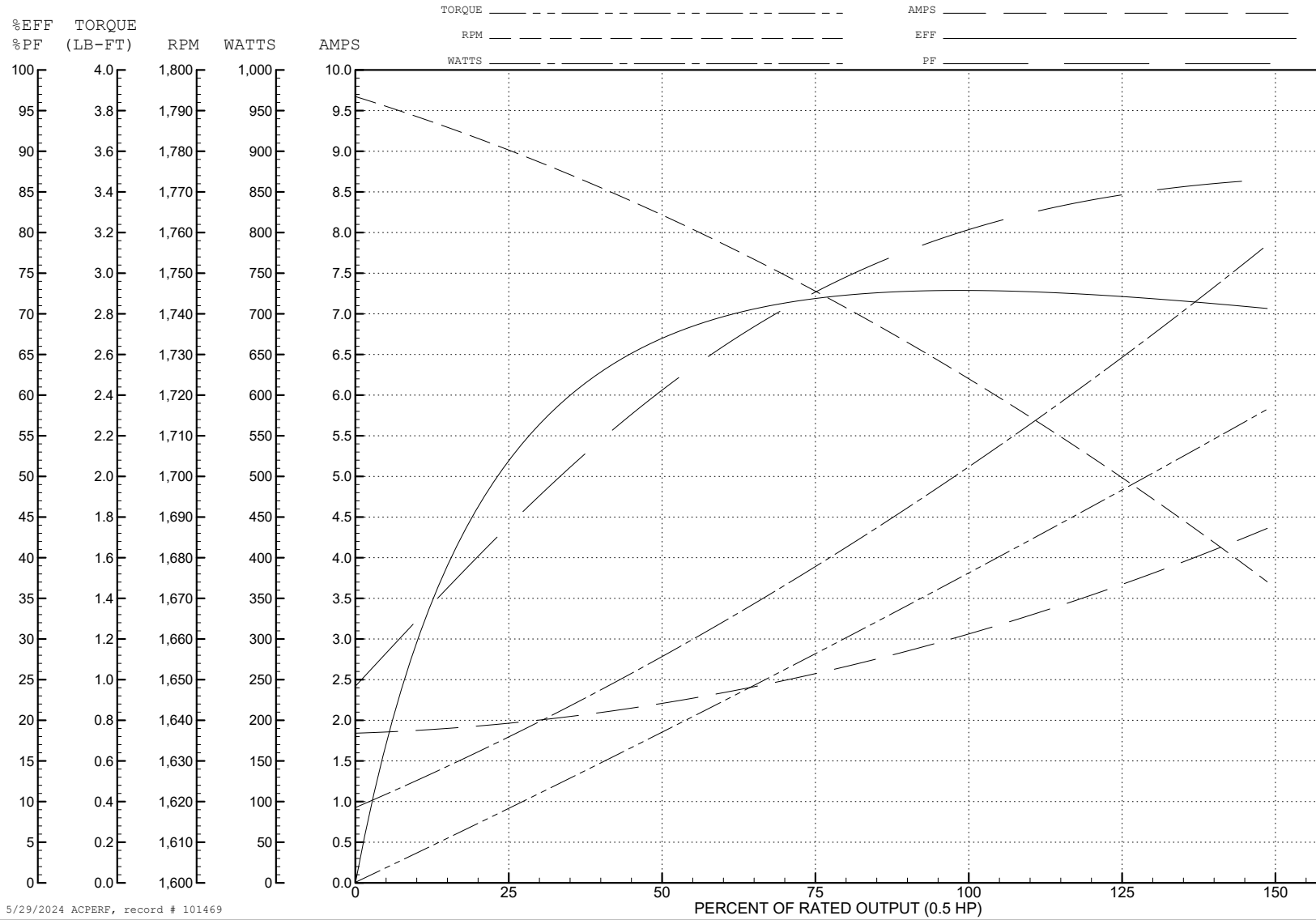
ABB Motors and Mechanical Inc.

WINDING # 35WGG588

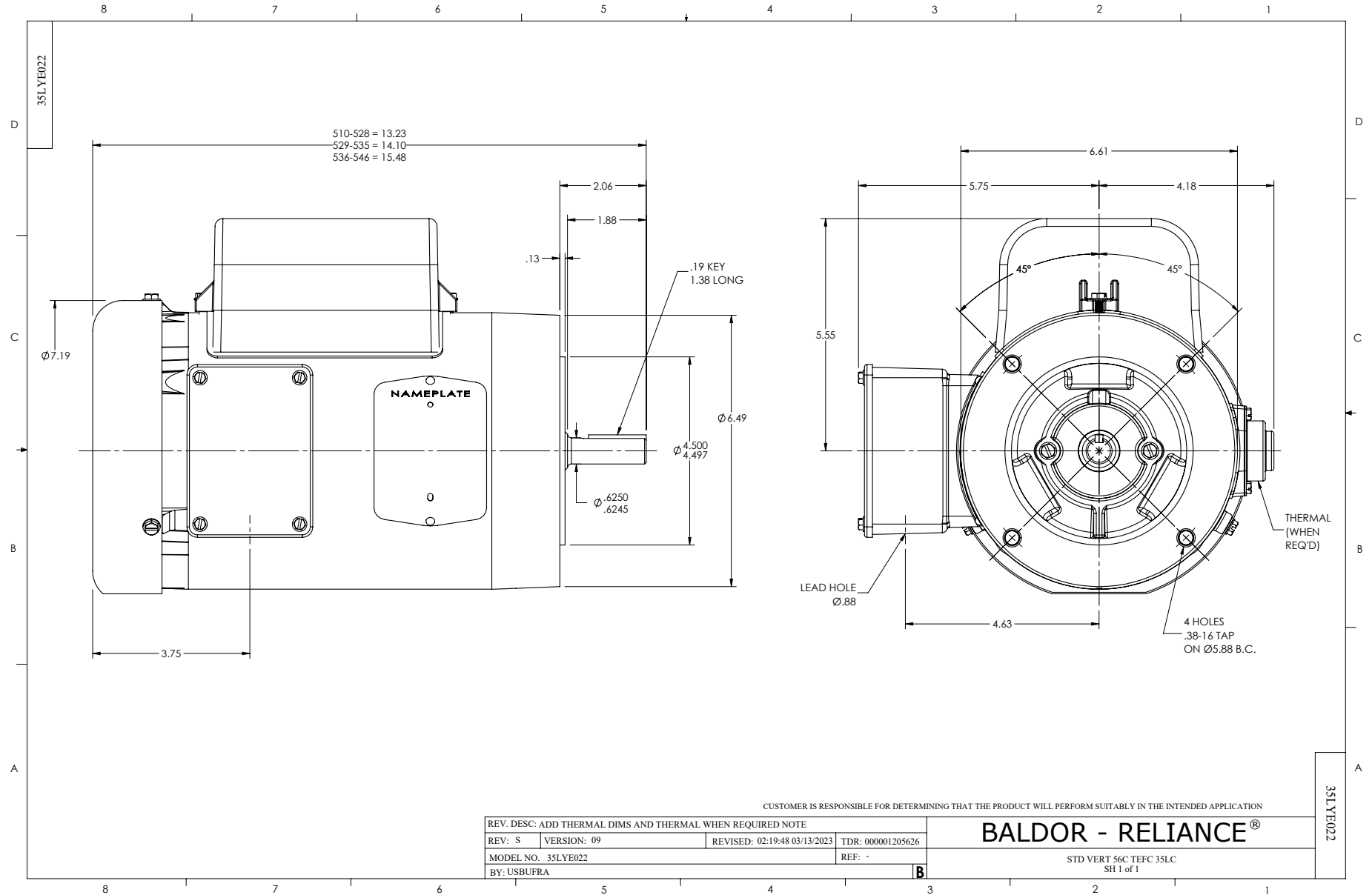
Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1740 RPM 208 V 3518LC

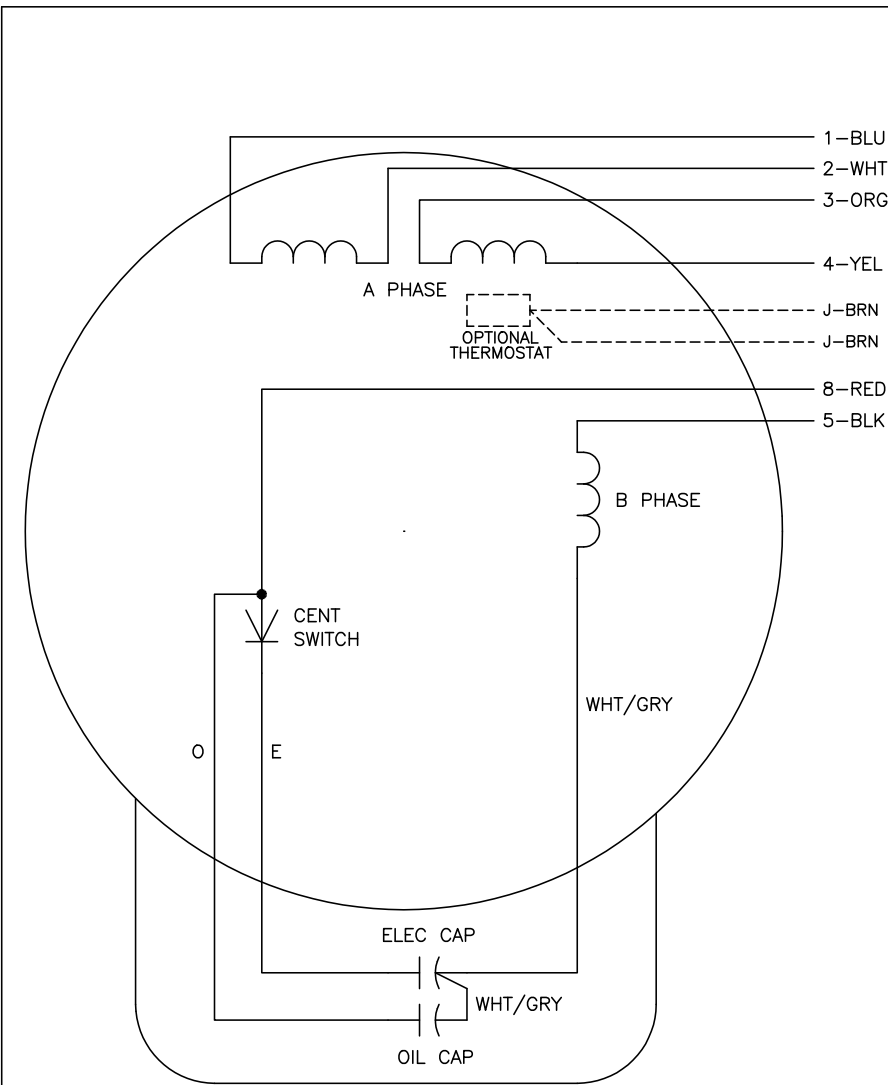
TORQUES (LB-FT): PO=3.86 PU=2.78 LR=5.71 LRA=22.1



5/29/2024 ACPERF, record # 101469



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			
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