

**BALDOR • RELIANCE**

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# Customer information packet

## CL3507

.75HP, 1725RPM, 1PH, 60HZ, 56C, 3428LC, TEFC, F

ELECTRIC MOTOR WHOLESale.COM

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
XP Class and Group	None
XP Division	Not Applicable
Agency Approvals	CSA UR
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	4.200 A @ 230.0 V 4.400 A @ 208.0 V 8.400 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	F

## Part detail

Revision	-
Type	AC
Mech. spec.	34G451
Base	
Status	PRD/A
Elec. spec.	34WGR714
Layout	34LYG451
Eff. date	11-25-2020
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	11-19-2020

<b>Inverter Code</b>	Not Inverter
<b>KVA Code</b>	J
<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>	3428LC
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	12.47 IN
<b>Power Factor</b>	78
<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 Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1725 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>NP1256L</b>									
<b>CAT.NO.</b>	CL3507								
<b>SPEC.</b>	34G451R714								
<b>HP</b>	.75								
<b>VOLTS</b>	115/230								
<b>AMP</b>	8.4/4.2								
<b>RPM</b>	1725								
<b>FRAME</b>	56C		<b>HZ</b>	60		<b>PH</b>	1		
<b>SER.F.</b>	1.25	<b>CODE</b>	J	<b>DES</b>	N	<b>CLASS</b>	F		
<b>NEMA-NOM-EFF</b>	72	<b>PF</b>	78						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>			<b>USABLE AT 208V</b>				4.4		
<b>DE</b>	6203		<b>ODE</b>	6203					
<b>ENCL</b>	TEFC	<b>SN</b>							
	SFA 10/5								

## Parts list

Part number	Description	Quantity
SA388044	SA 34G451R714	1.000 ea
RA378386	RA 34G451R714	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D X 3.	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	2.000 ea
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5051B17	MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2	1.000 ea
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea

NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1000	PKG GRP, PRINT PK1008A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 ea

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**AC Induction Motor Performance Data**

Record # 85524

Typical performance - not guaranteed values

Winding: 34WGR714-R001		Type: 3428LC	Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>	
Rated Output (HP)	.75	Full Load Torque	2.25 LB-FT	
Volts	115/230	Start Configuration	direct on line	
Full Load Amps	8.4/4.2	Breakdown Torque	5.4 LB-FT	
R.P.M.	1725	Pull-up Torque	5.1 LB-FT	
Hz	60 Phase	1	Locked-rotor Torque	7.04 LB-FT
NEMA Design Code	N KVA Code	J	Starting Current	24.54 A
Service Factor (S.F.)	1.25	No-load Current	2.39 A	
NEMA Nom. Eff.	72 Power Factor	78	Line-line Res. @ 25°C	0.726 Ω A Ph 3.03 Ω B Ph
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	66°C	
S.F. Amps	10/5	Temp. Rise @ S.F. Load	84°C	
		Locked-rotor Power Factor	83	
		Rotor inertia	0.0665 lb-ft <sup>2</sup>	

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

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	62	73	80	83	83	83
Efficiency	52.6	68.4	72.5	73.5	73	69.2	73
Speed	1780	1765	1747	1727	1704	1670	1704
Line amperes	2.54	2.9	3.45	4.09	4.92	6.06	4.92

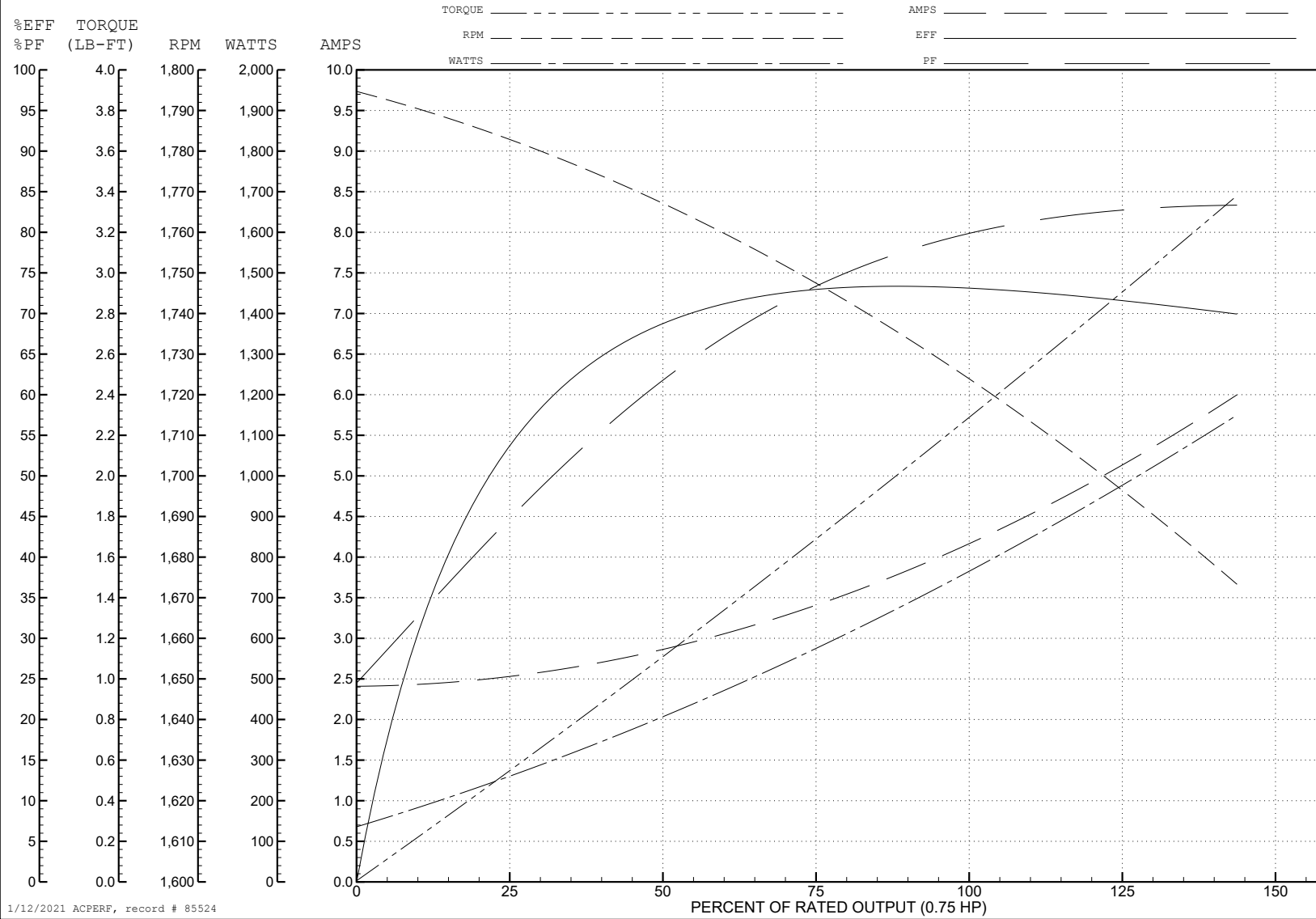
ABB Motors and Mechanical Inc.

WINDING # 34WGR714

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428LC

TORQUES (LB-FT): PO=5.4 PU=5.1 LR=7.04 LRA=24.54



1/12/2021 ACPERF, record # 85524



**AC Induction Motor Performance Data**

Record # 85532

Typical performance - not guaranteed values

Winding: 34WGR714-R001		Type: 3428LC	Enclosure: TEFC		
<b>Nameplate Data</b>			<b>115 V, 60 Hz: Low Voltage Connection</b>		
Rated Output (HP)	.75	Full Load Torque	2.26 LB-FT		
Volts	115/230	Start Configuration	direct on line		
Full Load Amps	8.4/4.2	Breakdown Torque	5.41 LB-FT		
R.P.M.	1725	Pull-up Torque	5.31 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque	7.32 LB-FT	
NEMA Design Code	N	KVA Code	J	Starting Current	47.96 A
Service Factor (S.F.)	1.25		No-load Current	4.78 A	
NEMA Nom. Eff.	72	Power Factor	78	Line-line Res. @ 25°C	0.726 Ω A Ph 3.03 Ω B Ph
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	66°C	
S.F. Amps	10/5		Temp. Rise @ S.F. Load	82°C	
			Locked-rotor Power Factor	85.8	
			Rotor inertia	0.0665 lb-ft <sup>2</sup>	

**Load Characteristics 115 V, 60 Hz, 0.75 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	62	73	80	83	84	83
Efficiency	52.7	68.4	72.5	73.6	72.8	69	72.8
Speed	1780	1765	1747	1726	1703	1670	1703
Line amperes	5.07	5.78	6.88	8.16	9.82	12.09	9.82

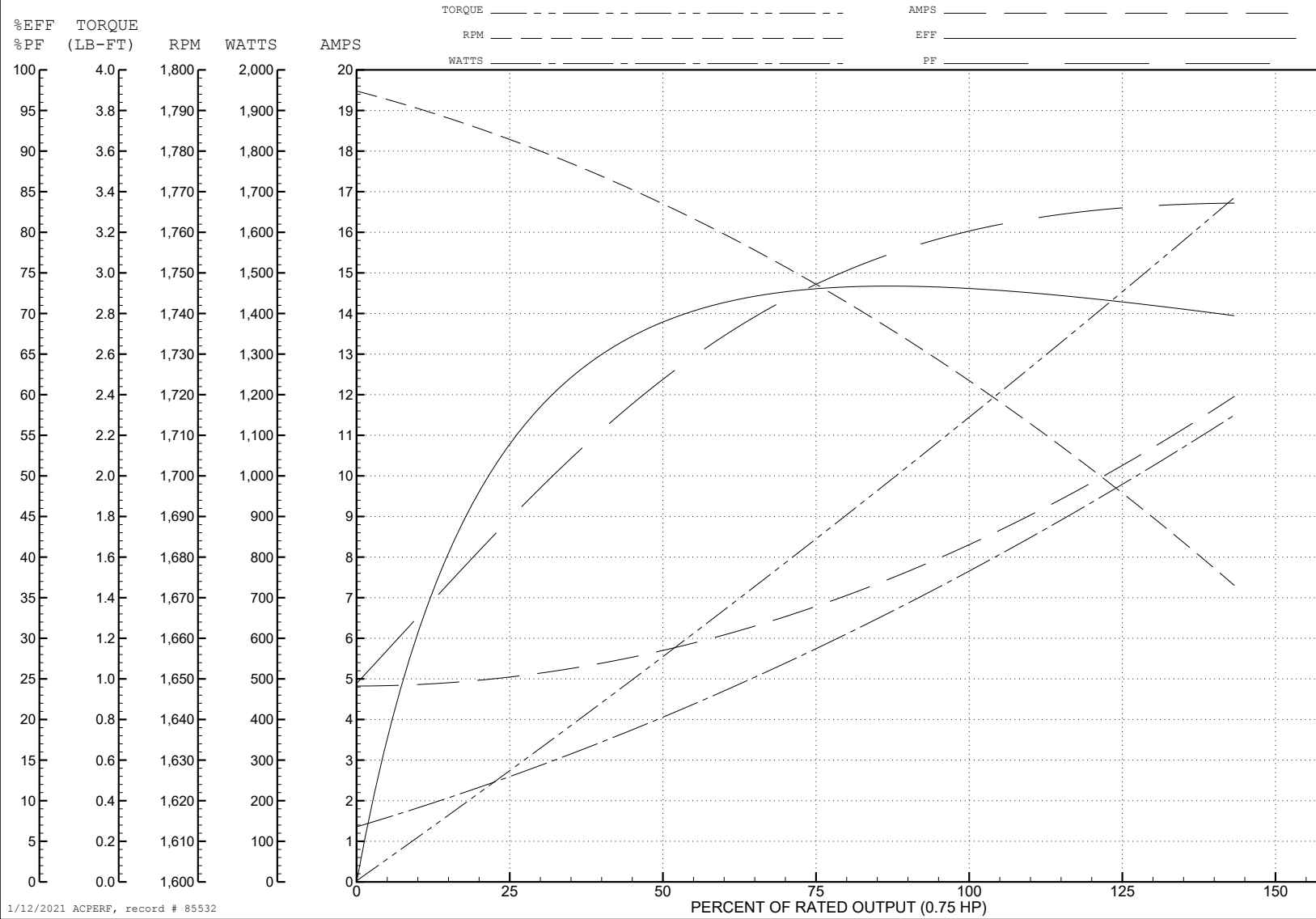
ABB Motors and Mechanical Inc.

WINDING # 34WGR714

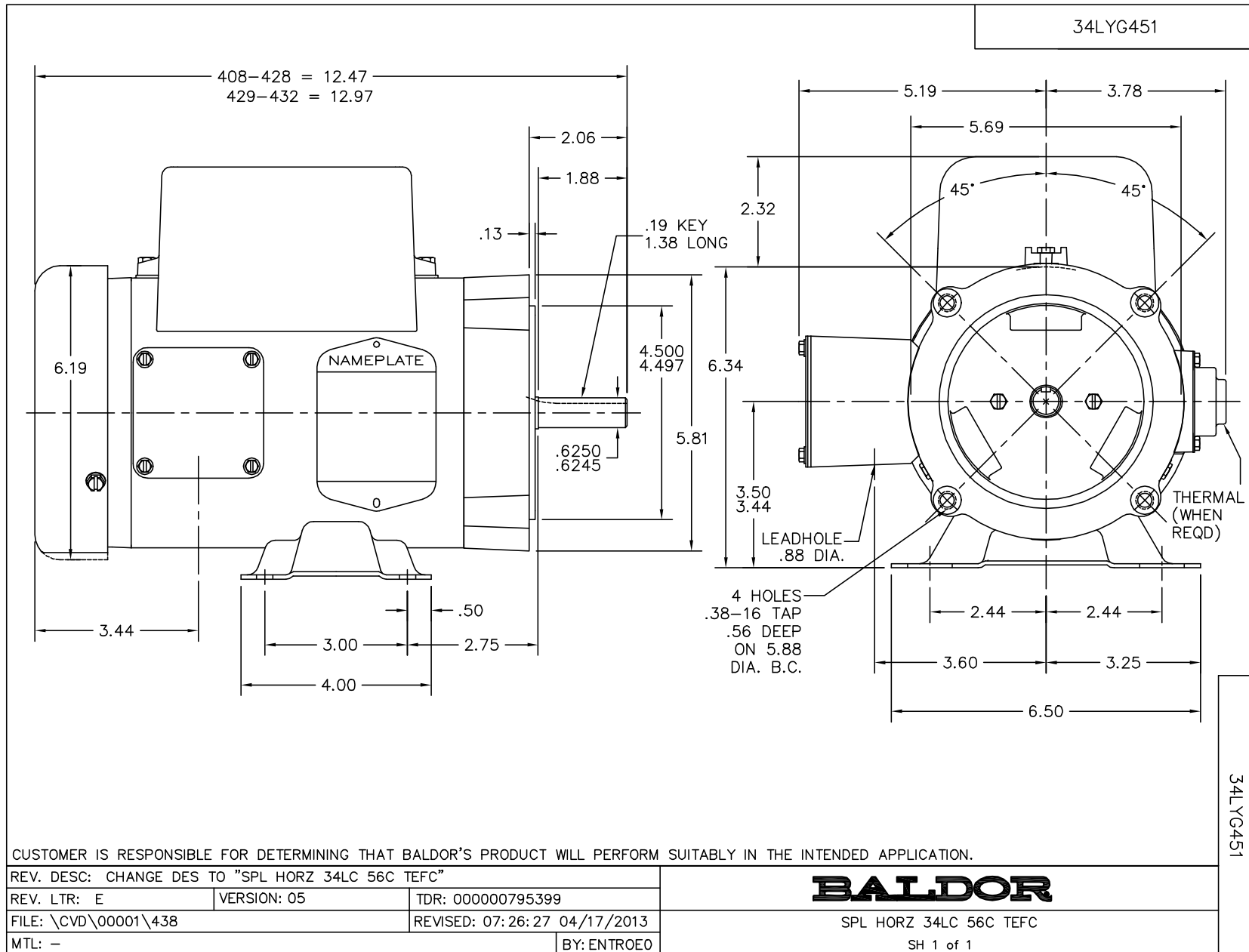
Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 115 V 3428LC

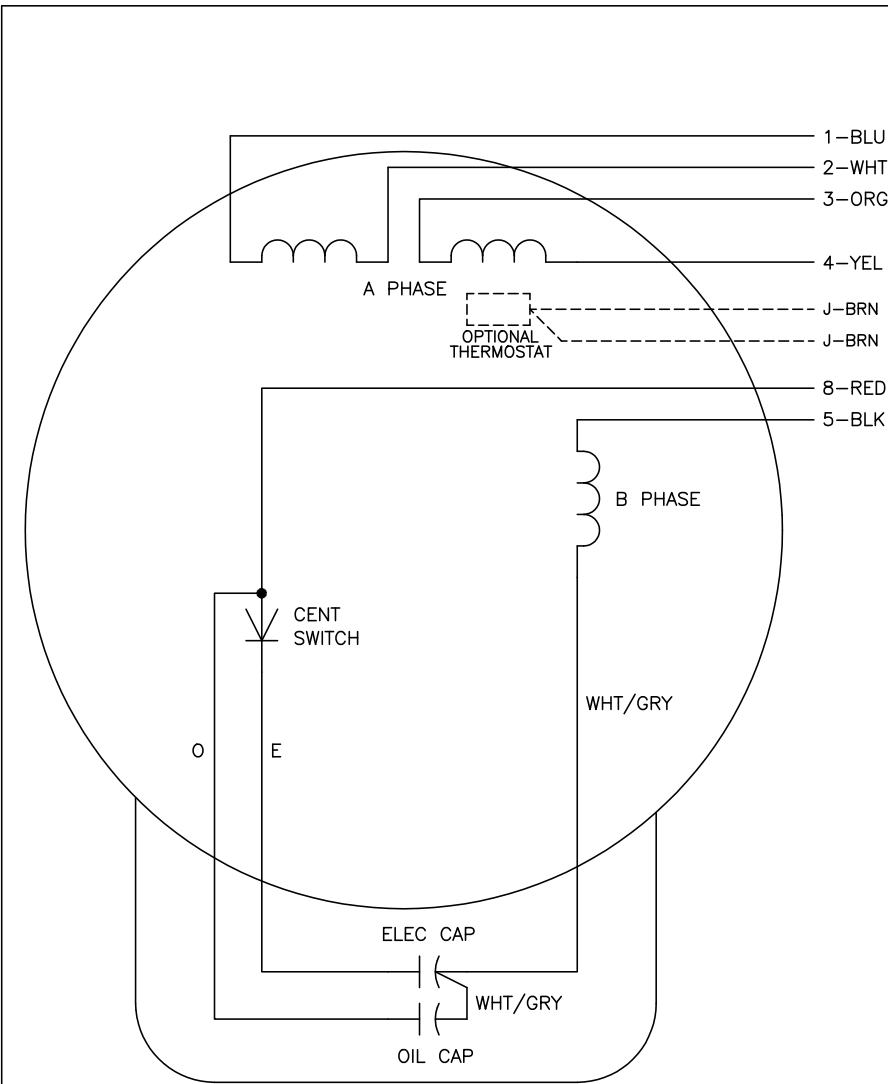
TORQUES (LB-FT): PO=5.41 PU=5.31 LR=7.32 LRA=47.96



1/12/2021 ACPERF, record # 85532



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