

**BALDOR • RELIANCE**

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# Customer information packet

## L3403

.25HP, 1725RPM, 1PH, 60HZ, 48, 3411L, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

Enclosure	TEFC
Frame	48
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	.250 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	UR CSA
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	2.500 A @ 230.0 V 3.000 A @ 208.0 V 5.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	55.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

## Part detail

Revision	AT
Type	AC
Mech. spec.	34C051
Base	
Status	PRD/A
Elec. spec.	34WG5506
Layout	34LYC051
Eff. date	12-30-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	2.5 a
Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3411L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	10.72 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 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**

<b>NP1256L</b>									
<b>CAT.NO.</b>	L3403								
<b>SPEC.</b>	34C51-5506								
<b>HP</b>	.25								
<b>VOLTS</b>	115/230								
<b>AMP</b>	5/2.5								
<b>RPM</b>	1725								
<b>FRAME</b>	48		<b>HZ</b>	60		<b>PH</b>	1		
<b>SER.F.</b>	1.35	<b>CODE</b>	L	<b>DES</b>	N	<b>CLASS</b>	B		
<b>NEMA-NOM-EFF</b>	55	<b>PF</b>	57						
<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 5.6/2.8								

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
34-3900T	C-FACE KIT	A8

**AC Induction Motor Performance Data**

Record # 6772

Typical performance - not guaranteed values

Winding: 34WG5506-R001		Type: 3411L		Enclosure: TEFC	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
Rated Output (HP)	.25	Full Load Torque	0.75 LB-FT		
Volts	115/230	Start Configuration	direct on line		
Full Load Amps	5/2.5	Breakdown Torque	2.13 LB-FT		
R.P.M.	1725	Pull-up Torque	1.88 LB-FT		
Hz	60 Phase	1	Locked-rotor Torque	2.48 LB-FT	
NEMA Design Code	N	KVA Code	L	Starting Current	9.95 A
Service Factor (S.F.)	1.35		No-load Current	2.2 A	
NEMA Nom. Eff.	55	Power Factor	57	Line-line Res. @ 25°C	8.88 Ω A Ph 7.06 Ω B Ph
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	57°C	
S.F. Amps	5.6/2.8		Temp. Rise @ S.F. Load	70°C	

**Load Characteristics 230 V, 60 Hz, 0.25 HP**

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	32	40	49	57	63	69	67
Efficiency	28	40	50	55	58	59	59
Speed	1779	1763	1740	1720	1700	1670	1680
Line amperes	2.2	2.3	2.4	2.5	2.7	2.9	2.8

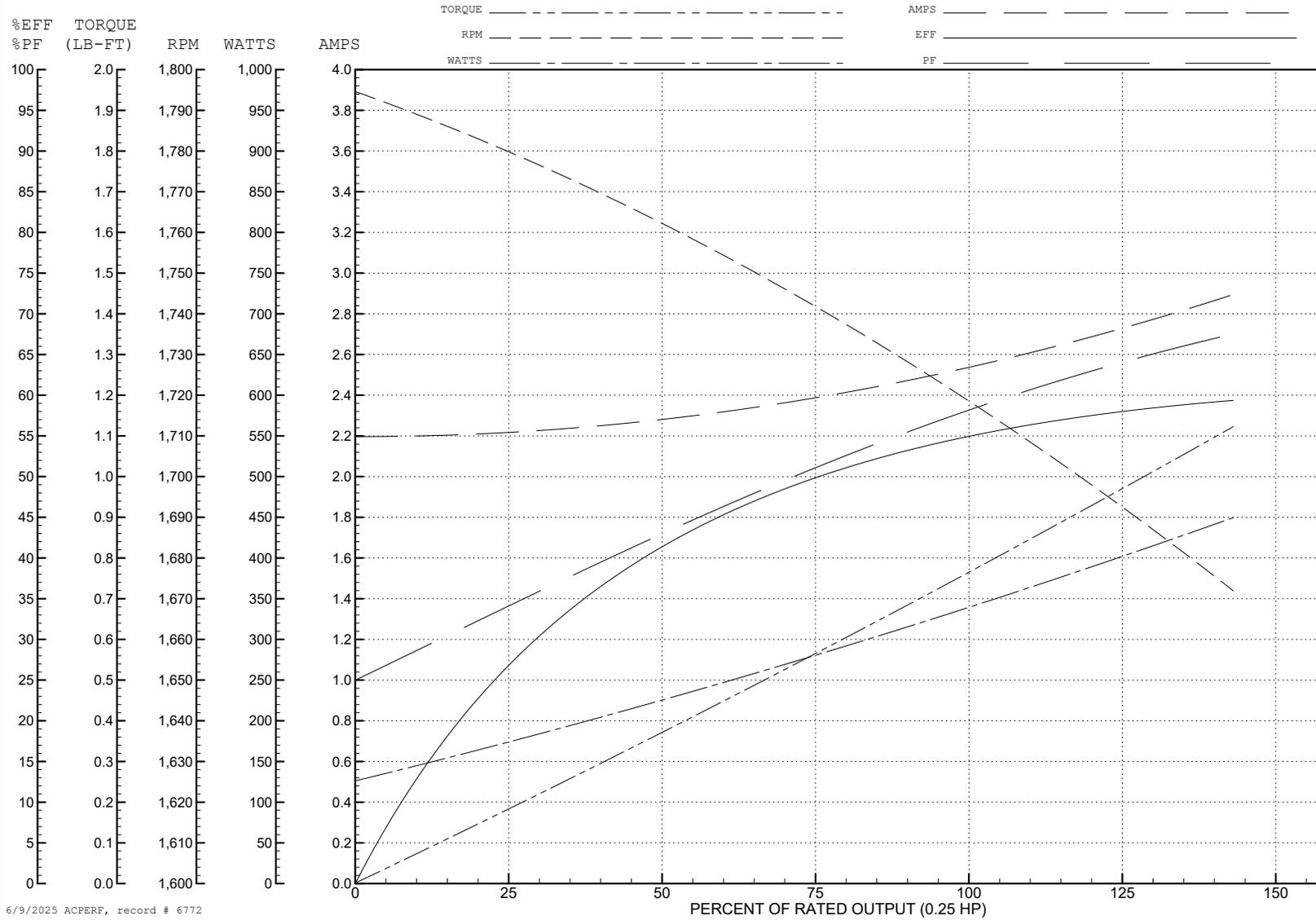
ABB Motors and Mechanical Inc.

WINDING # 34WG5506

0.25 HP 1 PH 60 HZ 1725 RPM 230 V 3411L

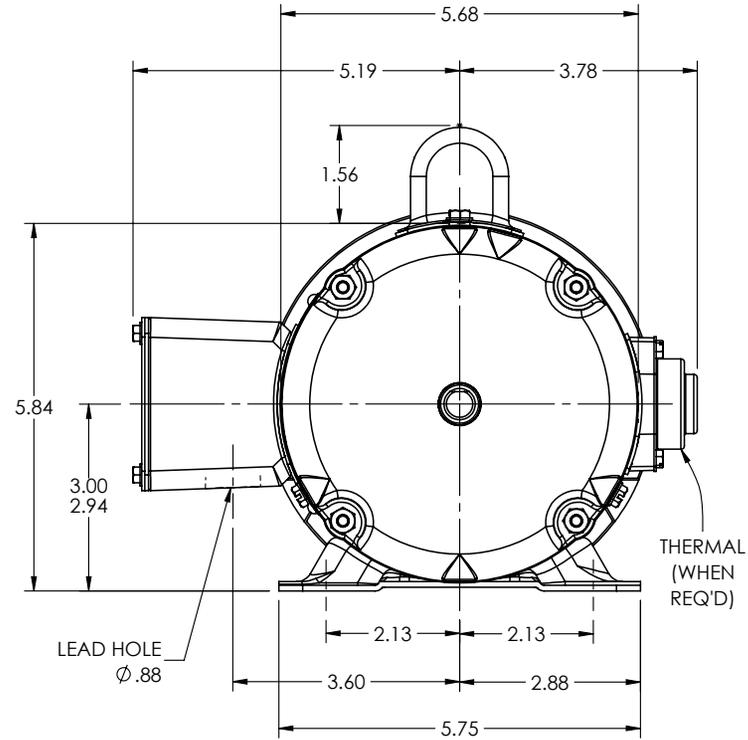
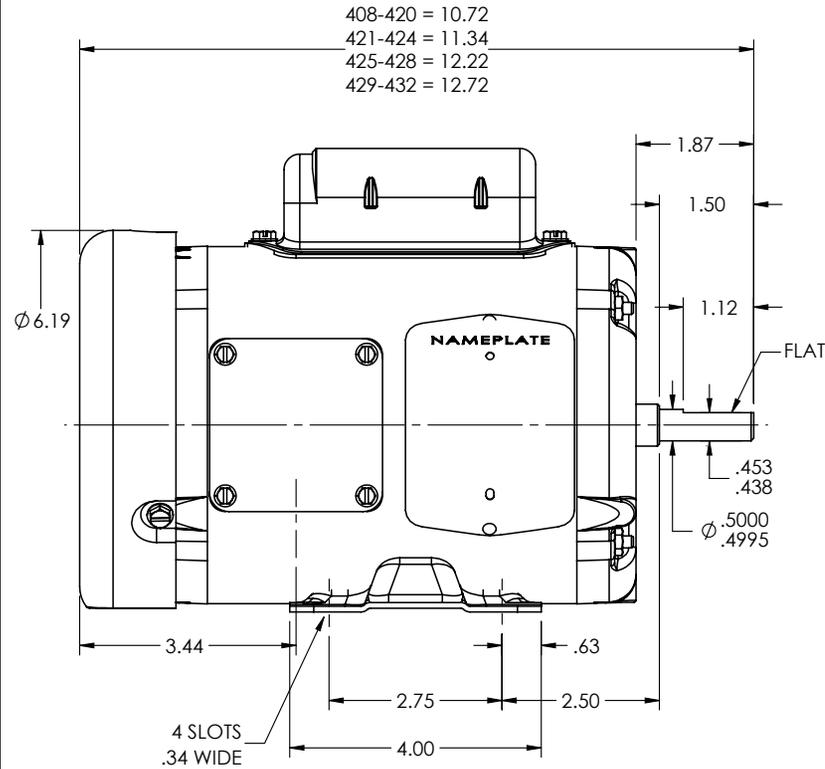
Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=2.13 PU=1.88 LR=2.48 LRA=9.95



6/9/2025 ACPERF, record # 6772

34LYC051



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE STACK RANGE

REV: N	VERSION: 06	REVISED: 04:36:54 05/06/2024	TDR: 000001231525
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34LYC051

MODEL NO. 34LYC051  
 BY: ENJEFD0

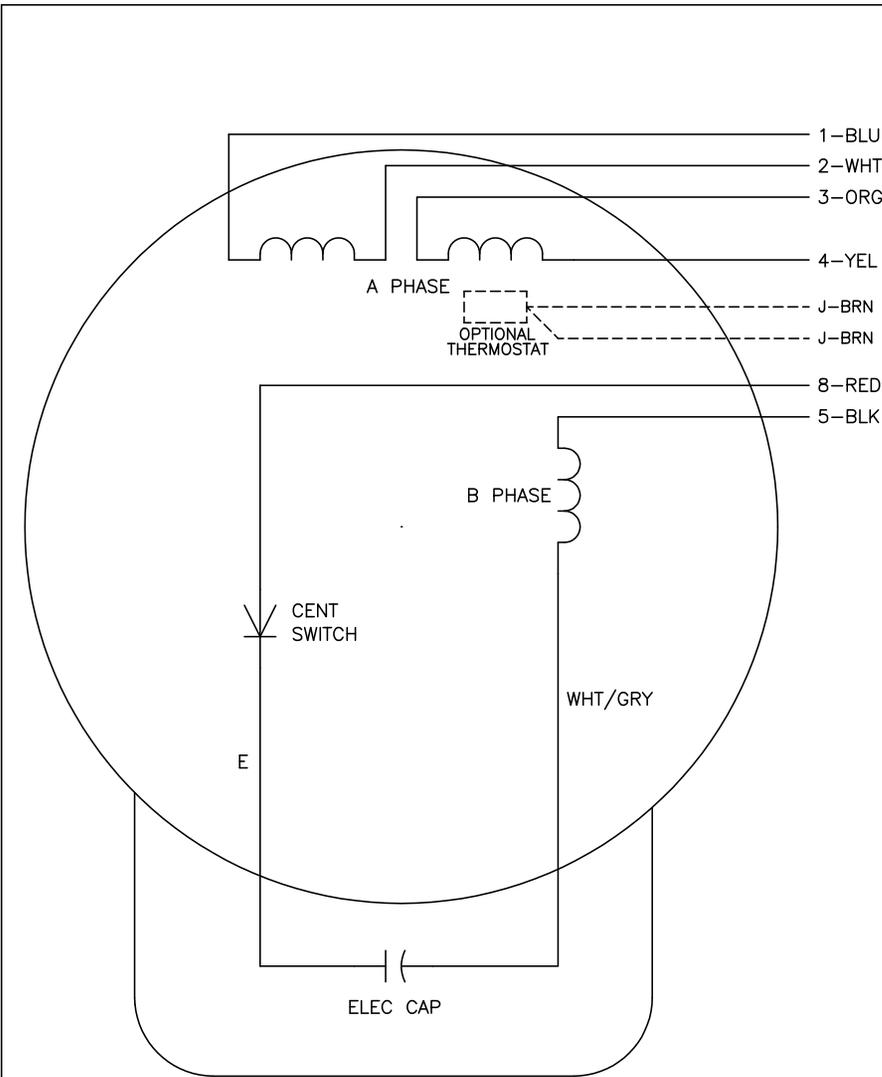
REF: -

**BALDOR - RELIANCE®**

STD HORZ MODEL 34L NEMA 48 TEFC

34LYC051

CD0001



	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 1:16	TDR: 0178636
100000		FILE: AAA00007405	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, 6 LEADS

CD0001