ABB BALDOR RELIANCE

Customer information packet

L3403

.25HP, 1725RPM, 1PH, 60HZ, 48, 3411L, TEFC, F1
Class - None
Division - Not Applicable

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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	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	C UR US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	5.000 A @ 115.0 V
	3.000 A @ 208.0 V
	2.500 A @ 230.0 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
High Voltage Full Load Amps	2.5 a

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

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

	NP1256L							
CAT.NO.	L3403							
SPEC.	34C51-5506							
HP	.25							
VOLTS	115/230							
AMP	5/2.5							
RPM	1725							
FRAME	48	**HZ**	60			**PH**	1	
SER.F.	1.35	**CODE**	L	**DES**	N	**CLASS**	B	
NEMA-NOM-EFF	55	**PF**	57					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEFC	**SN**						
	SFA 5.6/2.8							

Parts List

Part number	Description	Quantity
SA008575	SA 34C51-5506	1.000 ea
RA005022	RA 34C51-5506	1.000 ea
EC1161A02	BMI 091A161B125AD2A ELEC CAP 115V 1.4 X	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
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	1.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
34GS3000SP	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5051B16	MDL 34 TORQ STAT SW,TYPE L , STD F1 & F2	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

Accessories

Part number	Description	Multiplier
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

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
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. @ 25ºC**	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

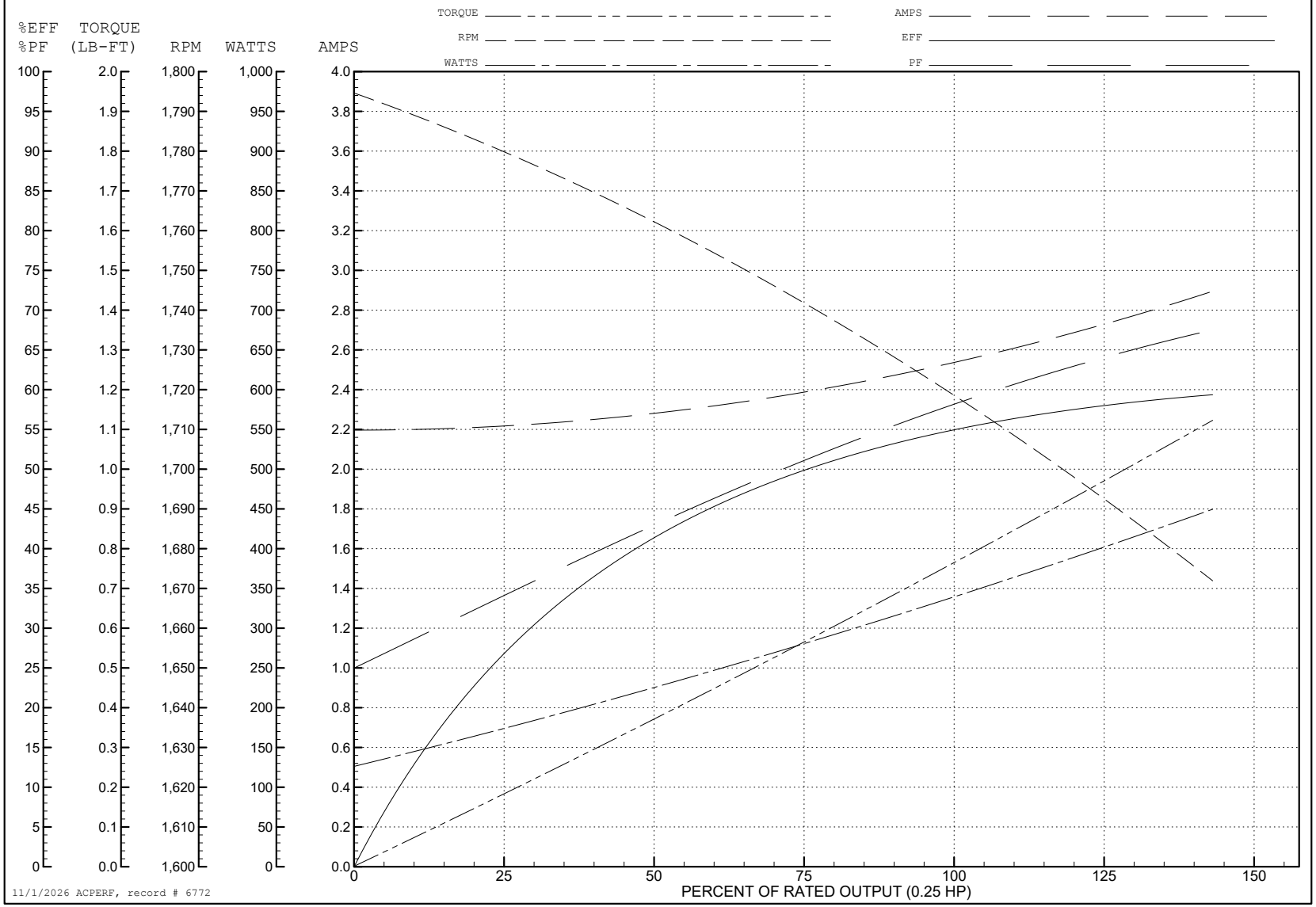
ABB Motors and Mechanical Inc.

WINDING # 34WG5506

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

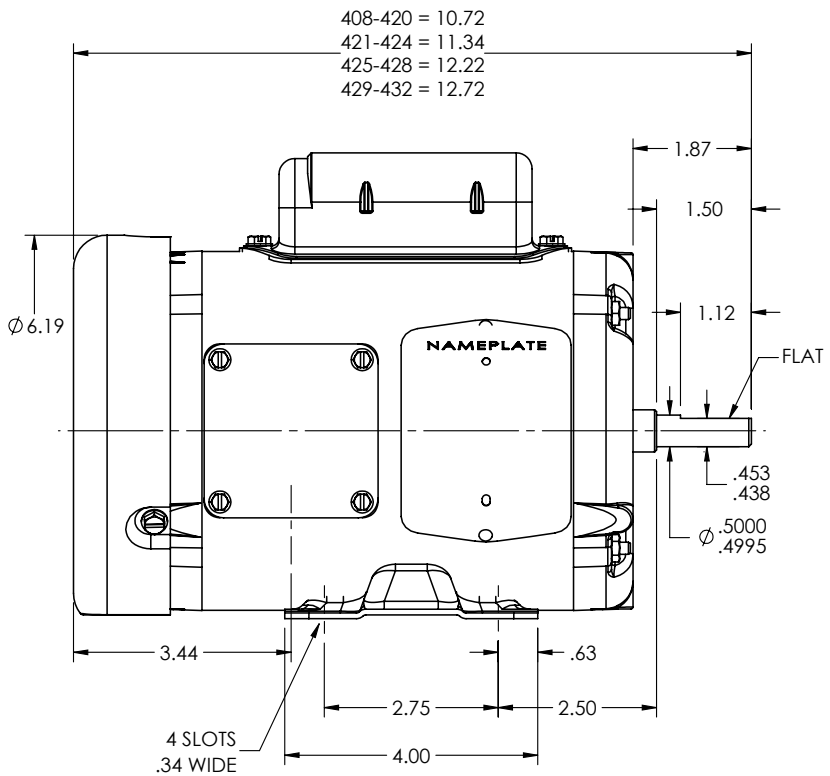
Typical performance - not guaranteed values.

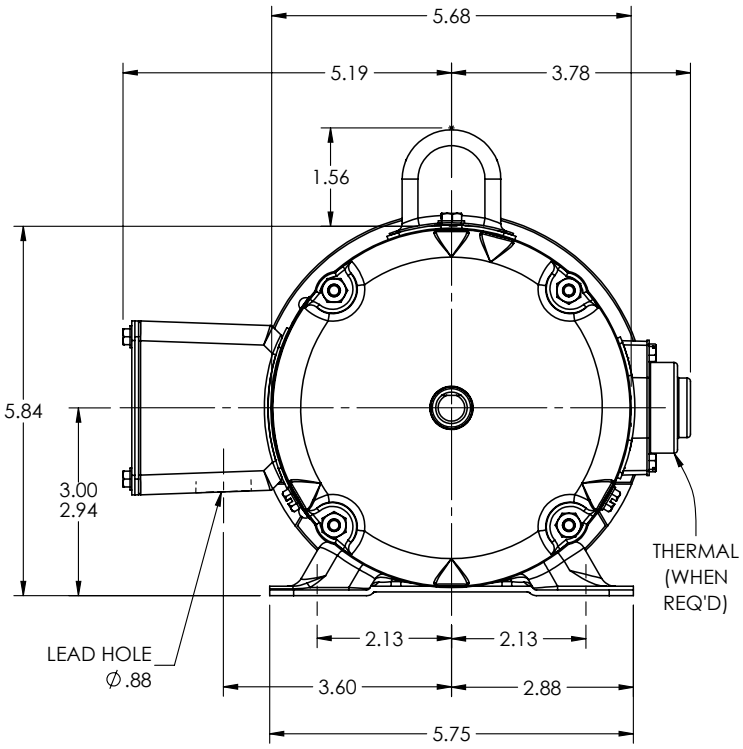
TORQUES(LB-FT): PO=2.13 PU=1.88 LR=2.48 LRA=9.95



11/1/2026 ACPERF, record # 6772

34LYC051





34LYC051

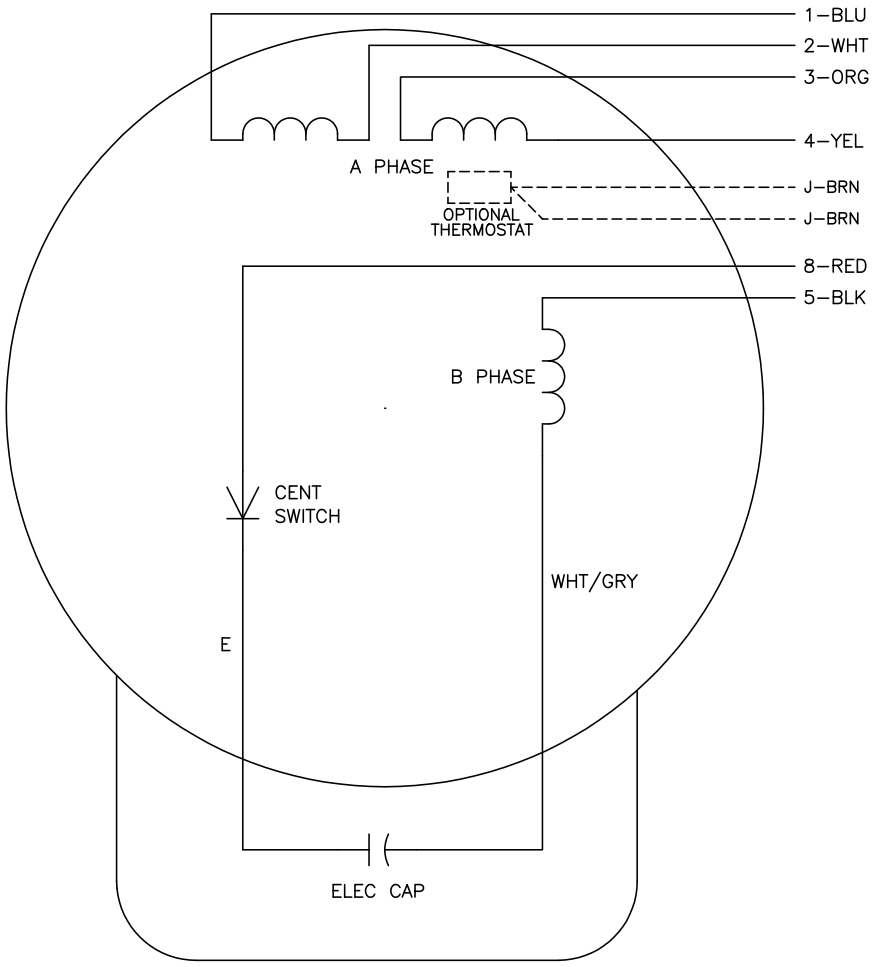
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: UPDATE STACK RANGE			
REV: N	VERSION: 06	REVISED: 04:36:54 05/06/2024	TDR: 000001231525
34LYC051	MODEL NO. 34LYC051		REF: -
	BY: ENJEFD0		

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 48 TEFC

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			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 04/08/99 1:16	TDR: 0178636
CD0001		FILE: AAA00007405	MDL: –
		MTL: –	TYPE L, DV, REV, 6 LEADS

CD0001