ABB BALDOR RELIANCE

Customer information packet

L3506

.75HP, 3450RPM, 1PH, 60HZ, 56, 3424L, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 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	4.800 A @ 230.0 V
	6.100 A @ 208.0 V
	9.600 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
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	4.8 a

Part Detail

Revision	AK
Type	AC
Mech. spec.	34K042
Base	
Status	PRD/A
Elec. spec.	34WG3405
Layout	34LYK042
Eff. date	03-03-2026
CD Diagram	CD0001
Poles	02
Leads	6#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	K
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	3424L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.97 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
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	3450 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.	L3506										
SPEC.	34K42-3405										
HP	.75										
VOLTS	115/230										
AMP	9.6/4.8										
RPM	3450										
FRAME	56		**HZ**	60			**PH**	1			
SER.F.	1.25	**CODE**	K	**DES**	N	**CLASS**	B				
NEMA-NOM-EFF	66	**PF**	74								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	TEFC	**SN**									
	SFA 11.6/5.8										

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 6684
Typical performance - not guaranteed values

Winding: 34WG3405-R001	**Type:** 3424L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.15 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			9.6/4.8	**Breakdown Torque**	3.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.7 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.7 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	28 A
Service Factor (S.F.)			1.25	**No-load Current**	3.5 A
NEMA Nom. Eff.	66	**Power Factor**	74	**Line-line Res. @ 25ºC**	2.5 Ω A Ph 2.5 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps			11.6/5.8	**Temp. Rise @ S.F. Load**	92°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	51	62	70	76	81	0
Efficiency	47.2	61.1	66.5	68.7	68.7	66.7	0
Speed	3561	3534	3500	3464	3421	3365	0
Line amperes	3.6	3.9	4.4	5	5.7	6.7	5.7

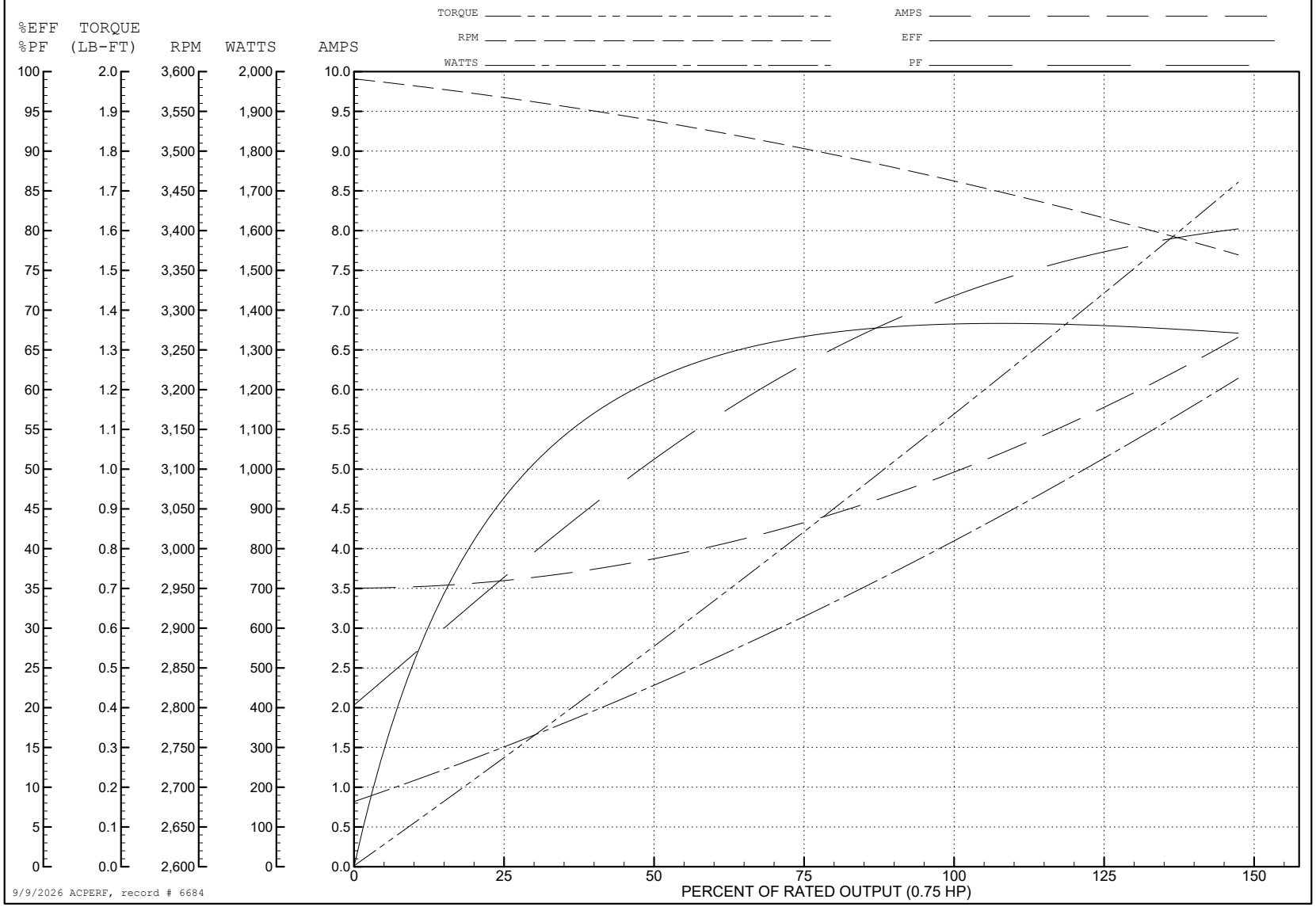
ABB Motors and Mechanical Inc.

WINDING # 34WG3405

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3424L

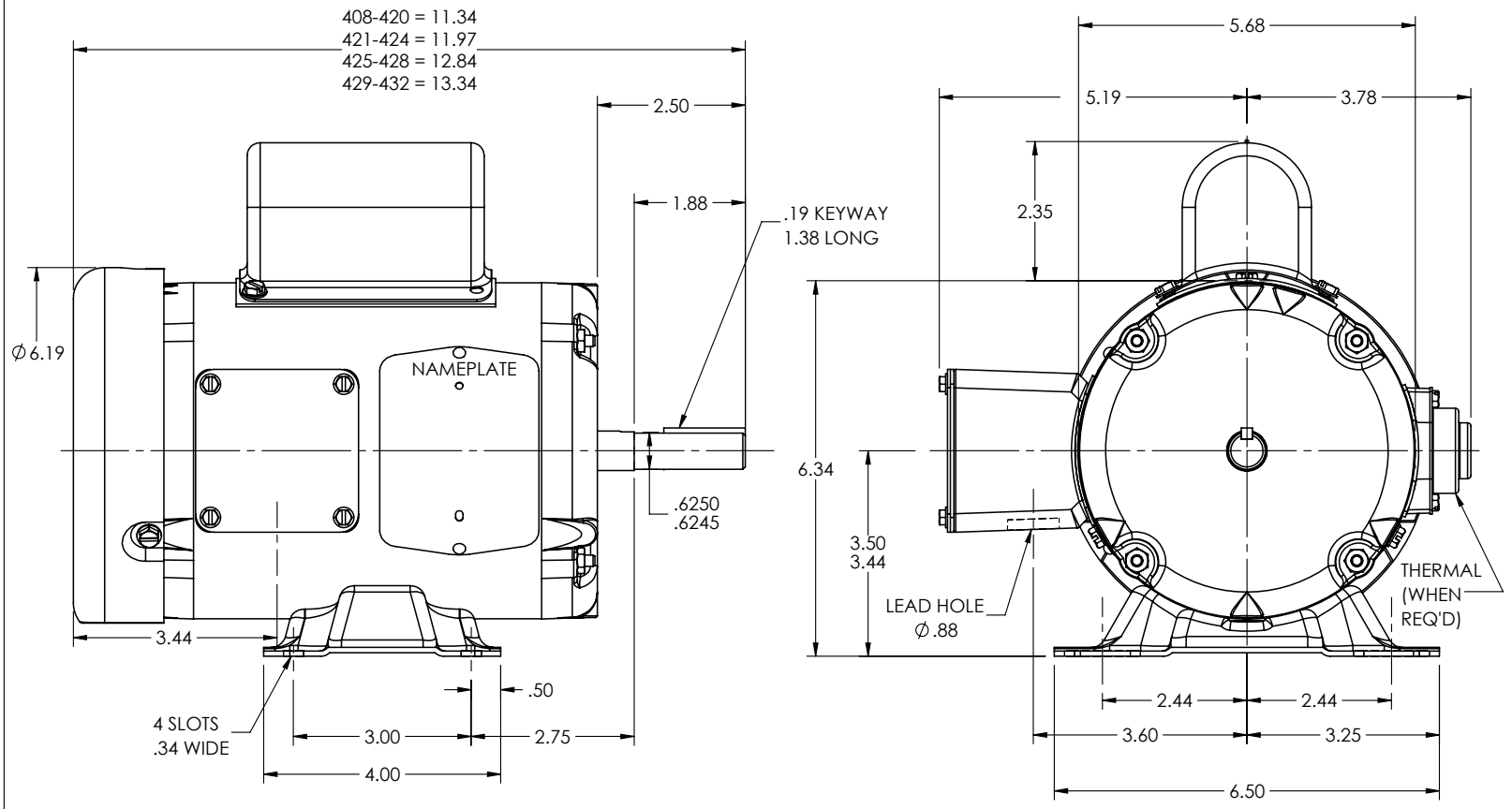
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=3.5 PU=2.7 LR=3.7 LRA=28



9/9/2026 ACPERF, record # 6684

34LYK042



34LYK042

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

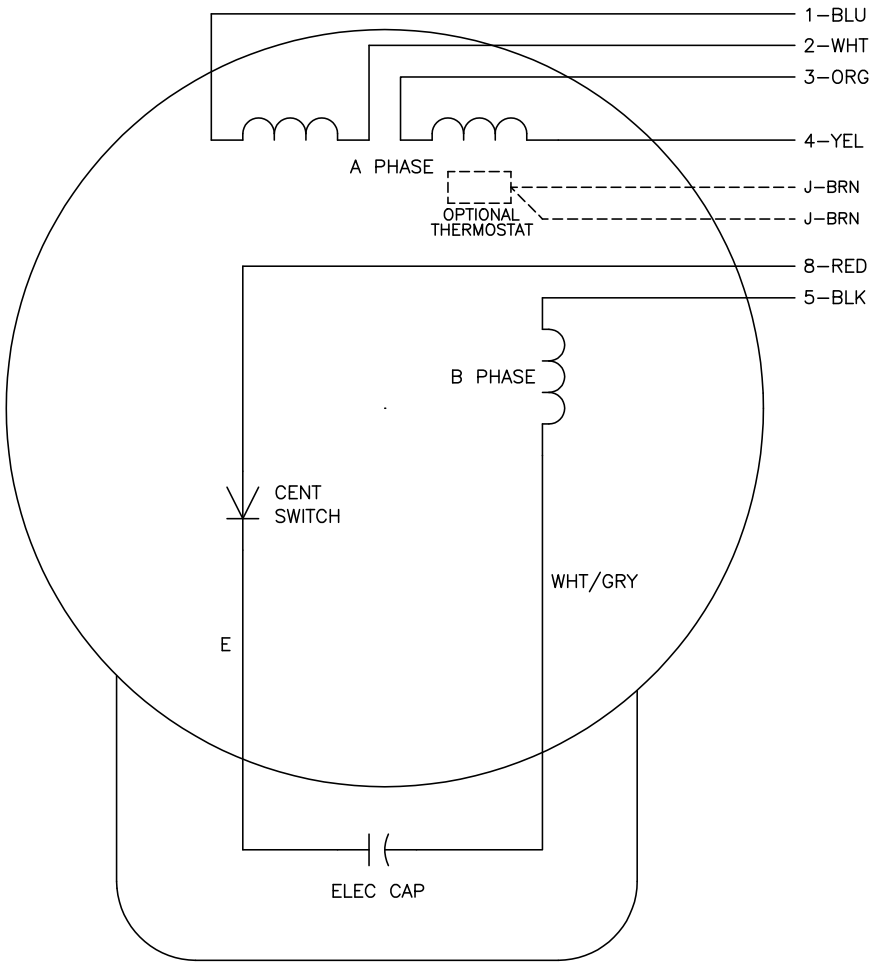
REV. DESC: LOAD TO SOLIDWORKS			
REV: D	VERSION: 02	REVISED: 10:25:55 08/31/2022	TDR: 000001194274
34LYK042	MODEL NO. 34LYK042		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

STD HORZ 34L NEMA 56 TEFC W/35 CAPAC BOX

34LYK042

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.

CD0001

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