ABB BALDOR RELIANCE

Customer information packet

AFL3520A

.75HP, 3450RPM, 1PH, 60HZ, 56Z, 3420L, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56Z
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	UR
	CSA
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	11.000 A @ 115.0 V
	5.500 A @ 230.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	71.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.5 a

Part Detail

Revision	AG
Type	AC
Mech. spec.	34K048
Base	
Status	PRD/A
Elec. spec.	34WG0656
Layout	34LYK048
Eff. date	03-27-2026
CD Diagram	CD0052
Poles	02
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Lead Hole
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Cord And Plug
Motor Standards	NEMA
Motor Type	3420L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.59 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Nameplate

NP1280L									
CAT.NO.	AFL3520A								
SPEC.	34K48-656								
HP	.75								
VOLTS	115/230								
AMP	11/5.5								
RPM	3450								
FRAME	56Z	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	J	**DES**	N	**CL**	B		
NEMA-NOM-EFF	71	**PF**	68						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEAO	**SN**							

AC Induction Motor Performance Data
Record # 50784
Typical performance - not guaranteed values

Winding: 34WG0656-R001	**Type:** 3420L	**Enclosure:** TEAO

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.2 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			11/5.5	**Breakdown Torque**	2.88 LB-FT
R.P.M.			3450	**Pull-up Torque**	2.25 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.25 LB-FT
NEMA Design Code	N	**KVA Code**	J	**Starting Current**	25 A
Service Factor (S.F.)			1	**No-load Current**	4.07 A
NEMA Nom. Eff.	71	**Power Factor**	68	**Line-line Res. @ 25ºC**	3.18 Ω A Ph 2.53 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	49	61	70	75	80
Efficiency	42	58	64	66	65	63
Speed	3557	3522	3485	3440	3399	3320
Line amperes	4.16	4.3	4.7	5.4	5.9	7

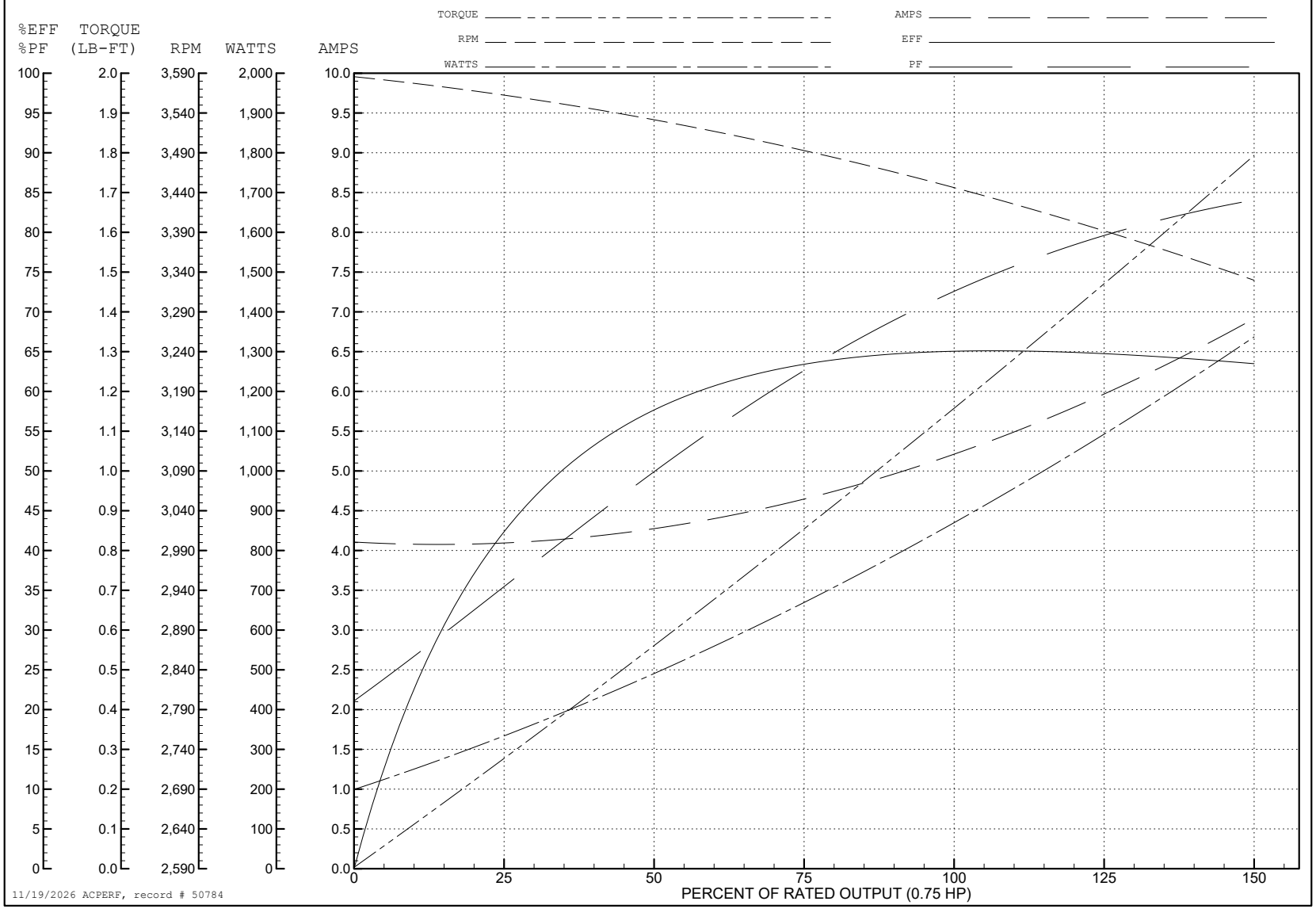
ABB Motors and Mechanical Inc.

WINDING # 34WG0656

0.75 HP 1 PH 60 HZ 3450 RPM 230 V 3420L

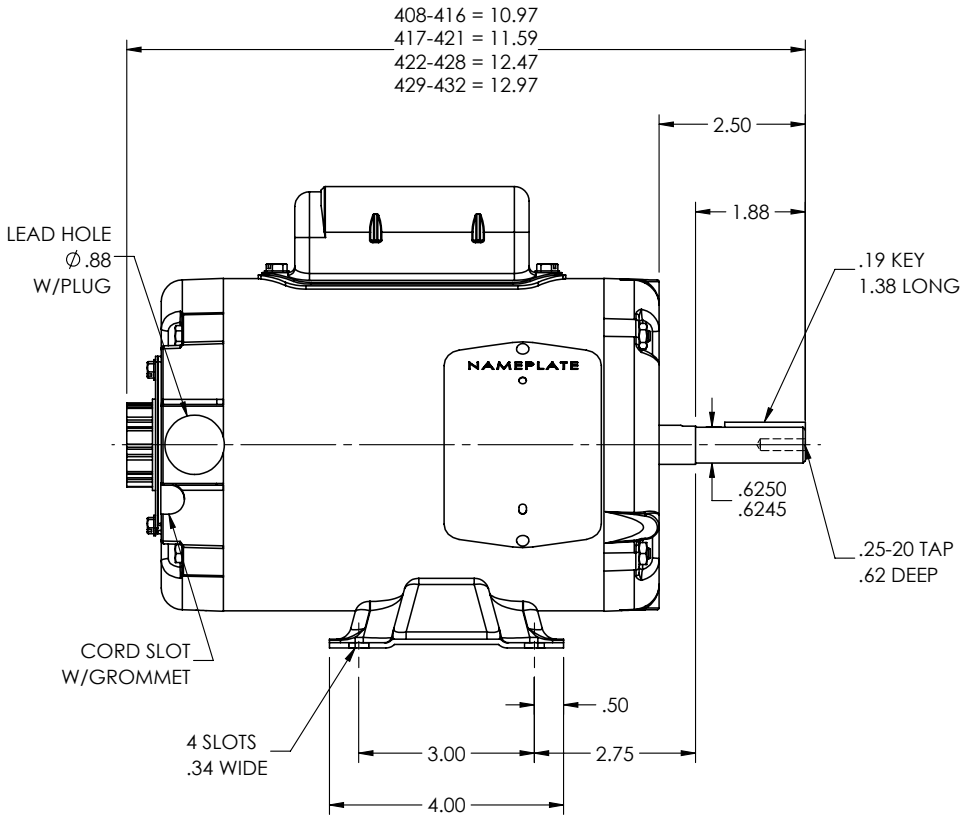
Typical performance - not guaranteed values.

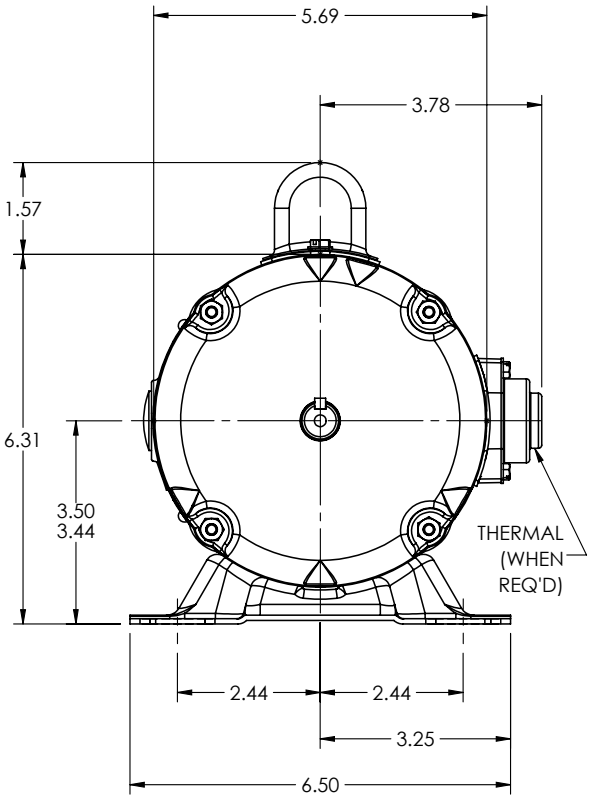
TORQUES(LB-FT): PO=2.88 PU=2.25 LR=3.25 LRA=25



11/19/2026 ACPERF, record # 50784

34LYK048





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

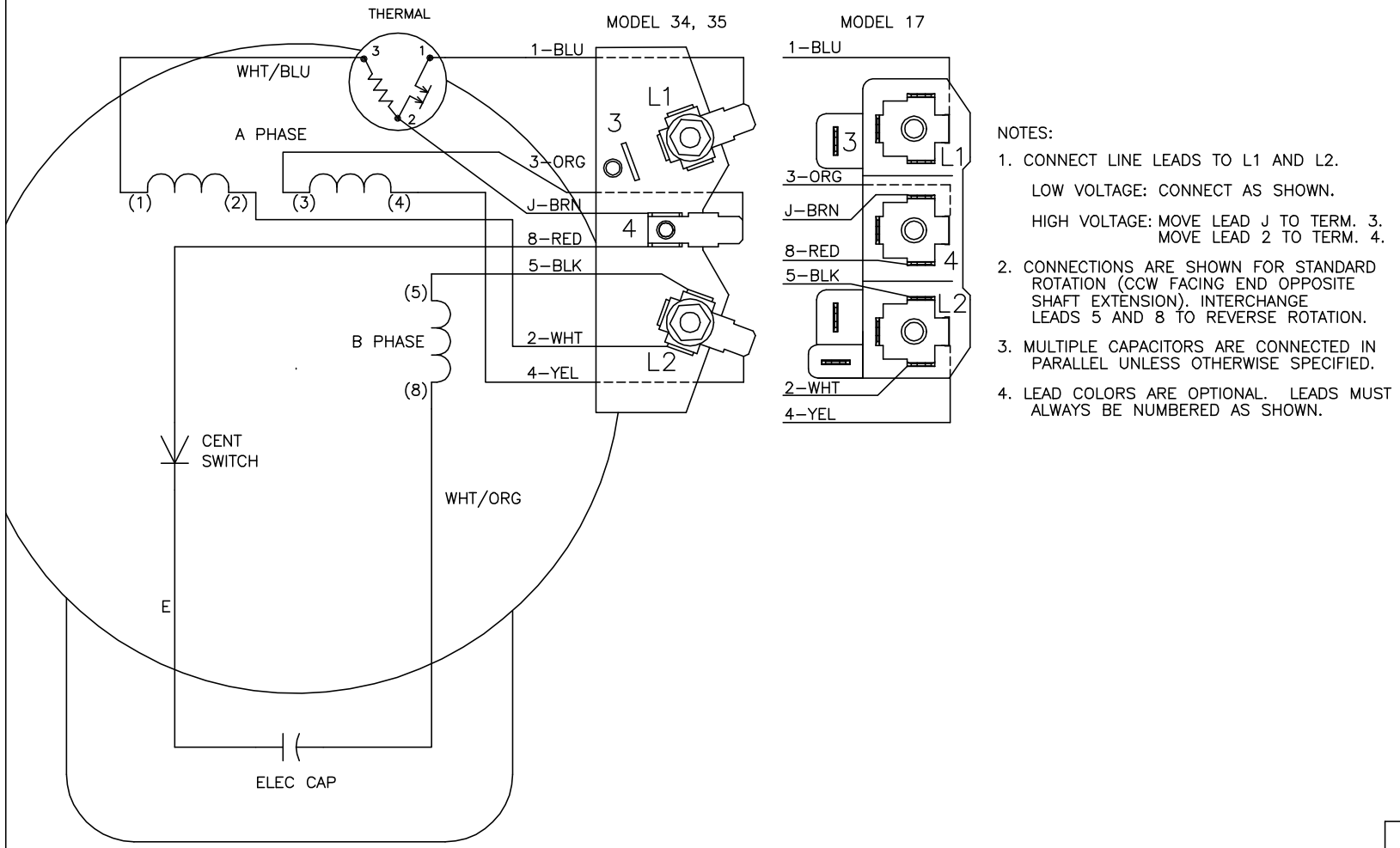
REV. DESC: LOAD TO SOLIDWORKS - REV C			
REV: D	VERSION: 02	REVISED: 04:56:58 01/05/2023	TDR: 000001201165
34LYK048	MODEL NO. 34LYK048		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

HORZ MODEL 34L NEMA 56Z TENV W/TERM PLATE (AERATION FAN MTR)

34LYK048

CD0052



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0052

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: H	VERSION: 01	TDR: 000000373039	
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005	TYPE L, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	