ABB BALDOR RELIANCE

Customer information packet

JL1304A

.5HP, 1725RPM, 1PH, 60HZ, 56J, 3418L, OPEN, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56J
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	.500 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
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 230.0 V
	4.800 A @ 208.0 V
	8.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AB
Type	AC
Mech. spec.	34F036
Base	
Status	PRD/A
Elec. spec.	34WG5595
Layout	34LYF036
Eff. date	12-31-2024
CD Diagram	CD0203
Poles	04
Leads	5#18,1#16 #1TH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	4.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.14 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Fixed Opposite Standard
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	Automatic Thermal Overload

Winding Thermal 1 Location	SB

Nameplate

	NP1257L									
CAT.NO.	JL1304A									
SPEC.	34F036-5595									
HP	.5									
VOLTS	115/230									
AMP	8.4/4.2									
RPM	1725									
FRAME	56J		**HZ**	60		**PH**	1			
SER.F.	1.25	**CODE**	K	**DES**	N	**CL**	B			
NEMA-NOM-EFF	62	**PF**	62							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	OPEN	**SN**								
	SFA 9.2/4.6									

AC Induction Motor Performance Data
Record # 6782
Typical performance - not guaranteed values

Winding: 34WG5595-R001 **Type:** 3418L **Enclosure:** OPEN

Nameplate Data			
Rated Output (HP)			.5
Volts			115/230
Full Load Amps			8.4/4.2
R.P.M.			1725
Hz	60	**Phase**	1
NEMA Design Code	N	**KVA Code**	K
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	62	**Power Factor**	62
Rating - Duty			40C AMB-CONT
S.F. Amps			9.2/4.6

230 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	4.35 LB-FT
Pull-up Torque	3.75 LB-FT
Locked-rotor Torque	5.03 LB-FT
Starting Current	18 A
No-load Current	3.4 A
Line-line Res. @ 25ºC	4.24 Ω A Ph 3.24 Ω B Ph
Temp. Rise @ Rated Load	66°C
Temp. Rise @ S.F. Load	78°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	42	53	62	69	77	69
Efficiency	36	52	60	64	65	65	65
Speed	1780	1765	1750	1730	1711	1685	1711
Line amperes	3.45	3.6	3.85	4.2	4.6	5.2	4.6

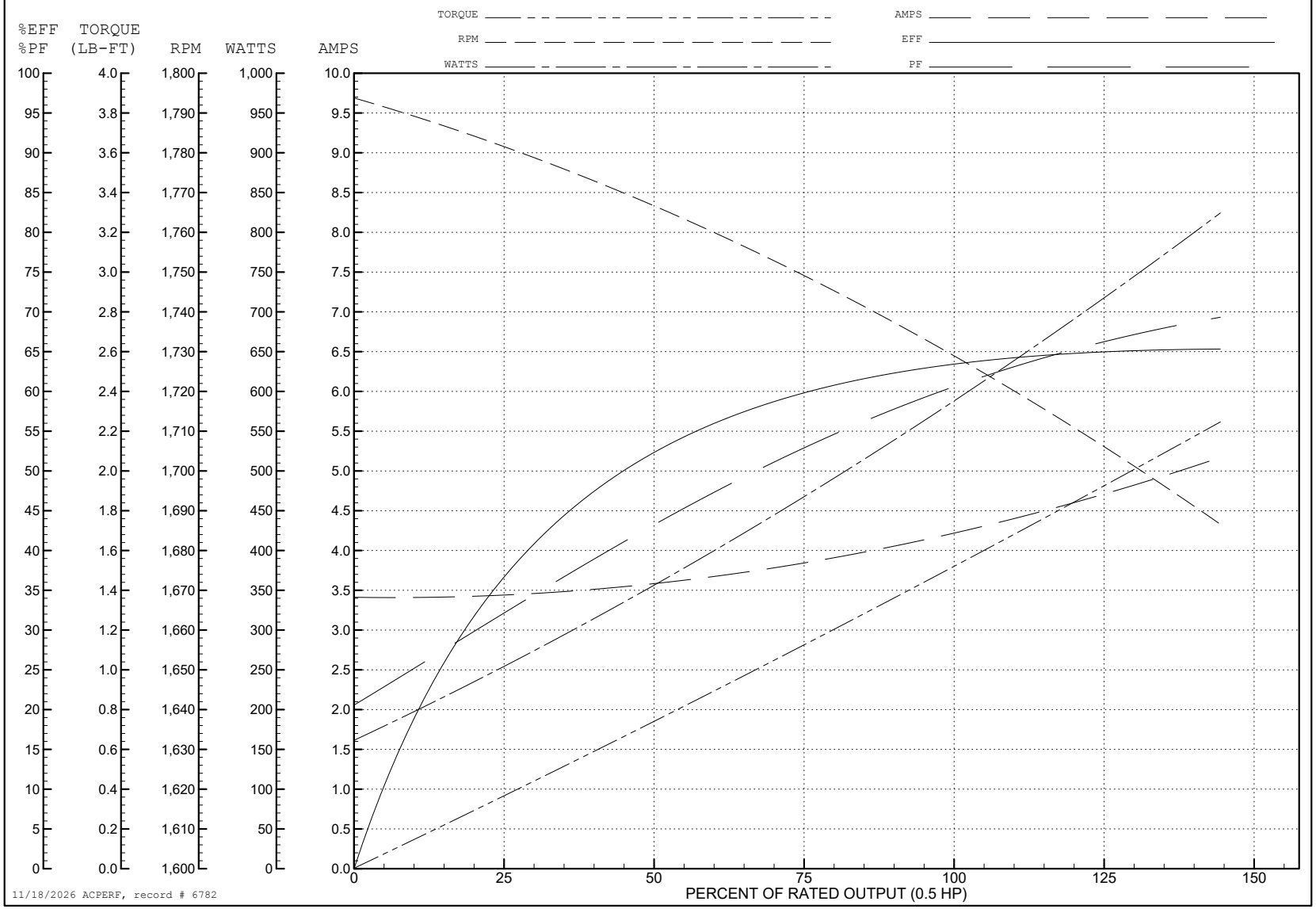
ABB Motors and Mechanical Inc.

WINDING # 34WG5595

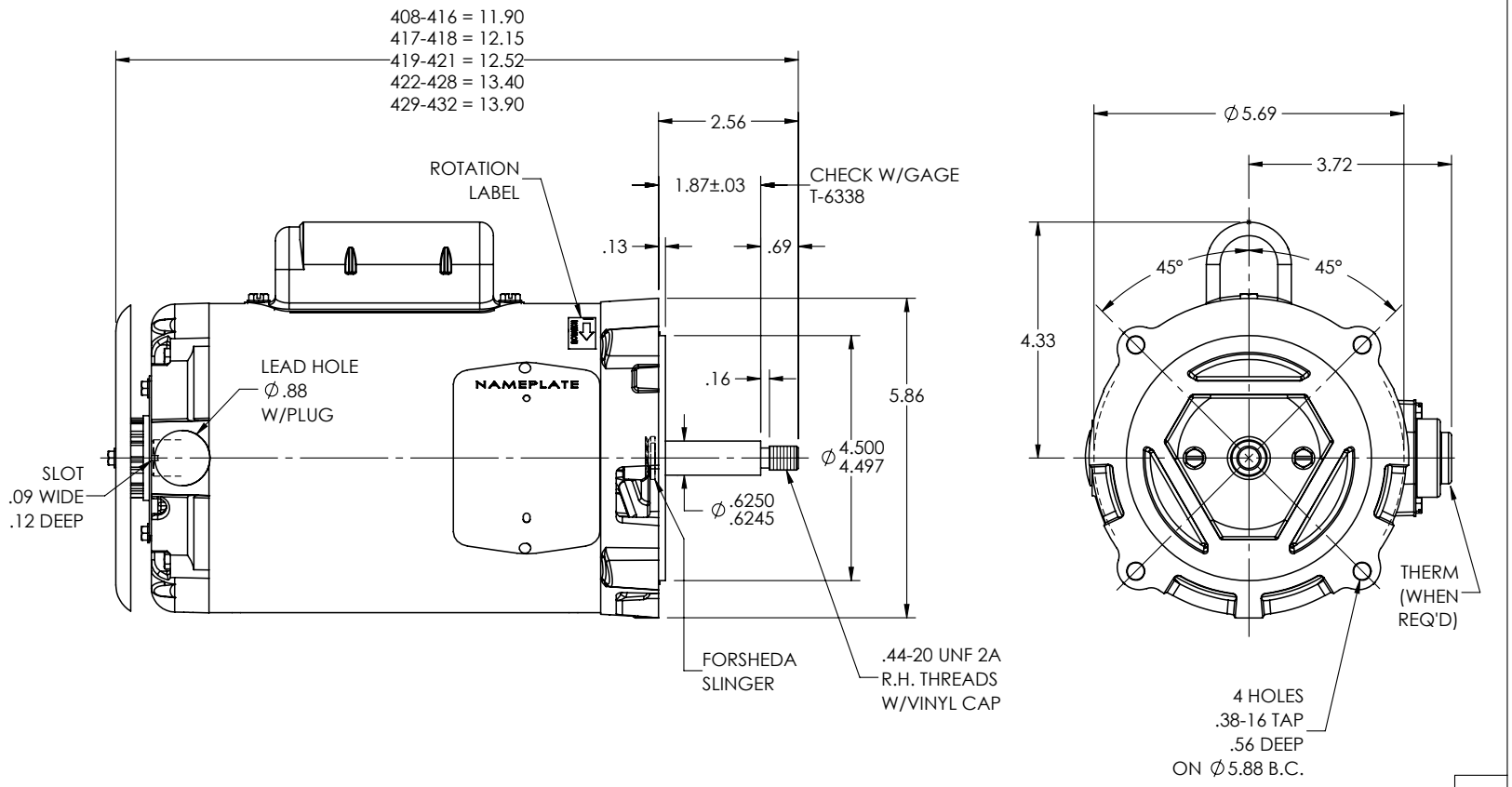
0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3418L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.35 PU=3.75 LR=5.03 LRA=18



34LYF036



34LYF036

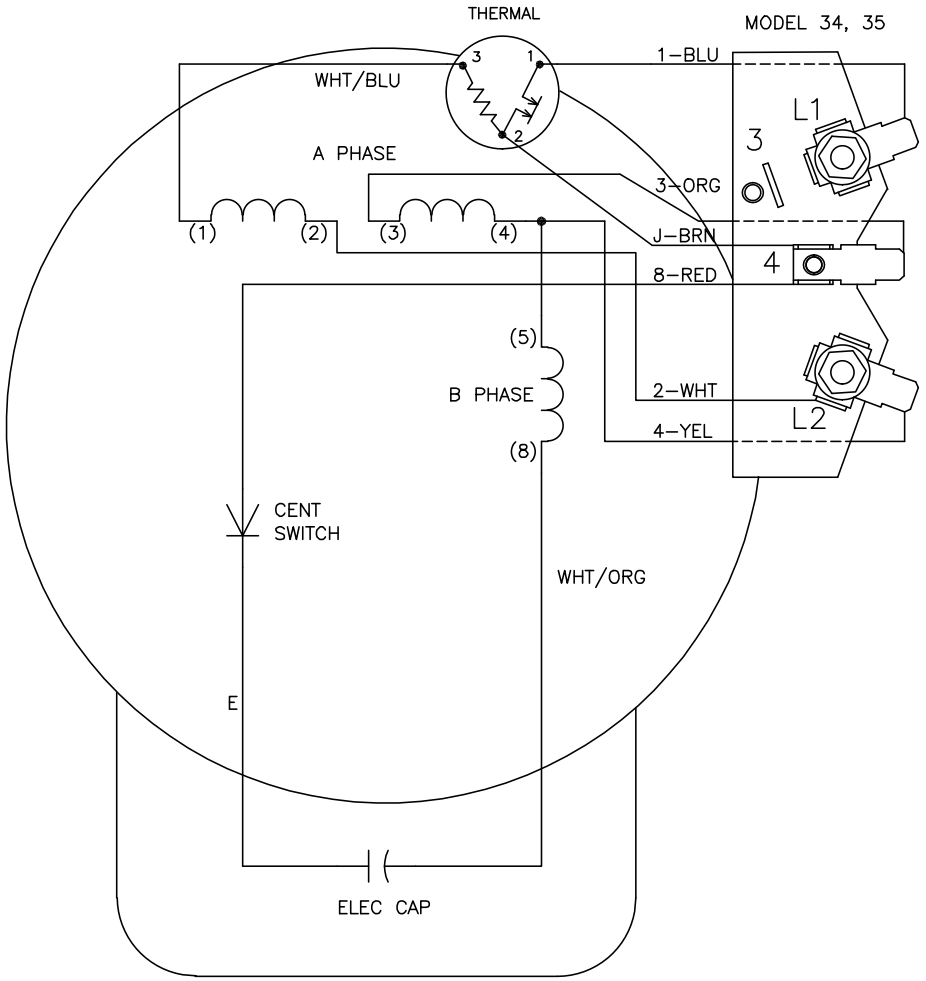
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: CLEAN UP DIMENSIONING			
REV: L	VERSION: 04	REVISED: 03:37:02 08/29/2025	TDR: 000001262510
34LYF036	MODEL NO. 34LYF036		REF: -
	BY: ENJEFD0		

BALDOR - RELIANCE®

STD VERT 34L NEMA 56J OPEN W/DRIP COVER & TERM PLATE

CD0203



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 5 AND 8 INTERNALLY FOR OPPOSITE STANDARD ROTATION.

3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.

4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0203

REV. DESC: REMOVE MODEL 17 CONNECTION		
REV. LTR: G	VERSION: 02	TDR: 000001250682
FILE: \AAA\00007\108	REVISED: 12:29:47 04/16/2025	BY: ENBRIR0
MTL: –		

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TYPE L, DV, FIX, THERMAL, TERMINAL PLATE

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