ABB BALDOR RELIANCE

Customer information packet

JL1303A

.5HP, 3450RPM, 1PH, 60HZ, 56J, 3420L, 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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.700 A @ 230.0 V
	7.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
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	3.7 a

Part Detail

Revision	AN
Type	AC
Mech. spec.	34F036
Base	
Status	PRD/A
Elec. spec.	34WG2413
Layout	34LYF036
Eff. date	12-31-2024
CD Diagram	CD0307
Poles	02
Leads	5#18,1#16 #1TH
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
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	3420L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.51 IN
Power Factor	67
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	1.60
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	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

NP1257L											
CAT.NO.	JL1303A										
SPEC.	34F36-2413										
HP	.5										
VOLTS	115/230										
AMP	7.4/3.7										
RPM	3450										
FRAME	56J		**HZ**	60		**PH**	1				
SER.F.	1.60	**CODE**	L	**DES**	N	**CL**	B				
NEMA-NOM-EFF	66	**PF**	67								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 9.4/4.7										

AC Induction Motor Performance Data
Record # 6647
Typical performance - not guaranteed values

Winding: 34WG2413-R001	**Type:** 3420L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	0.75 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			7.4/3.7	**Breakdown Torque**	2.3 LB-FT
R.P.M.			3450	**Pull-up Torque**	1.9 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	2 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	20 A
Service Factor (S.F.)			1.6	**No-load Current**	2.75 A
NEMA Nom. Eff.	66	**Power Factor**	67	**Line-line Res. @ 25ºC**	3.55 Ω A Ph 2.56 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps			9.4/4.7	**Temp. Rise @ S.F. Load**	53°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	50	60	67	73	77	78
Efficiency	36	52	61	66	69	71	71
Speed	3570	3550	3530	3511	3490	3465	3460
Line amperes	2.9	3.1	3.35	3.7	4.05	4.5	4.7

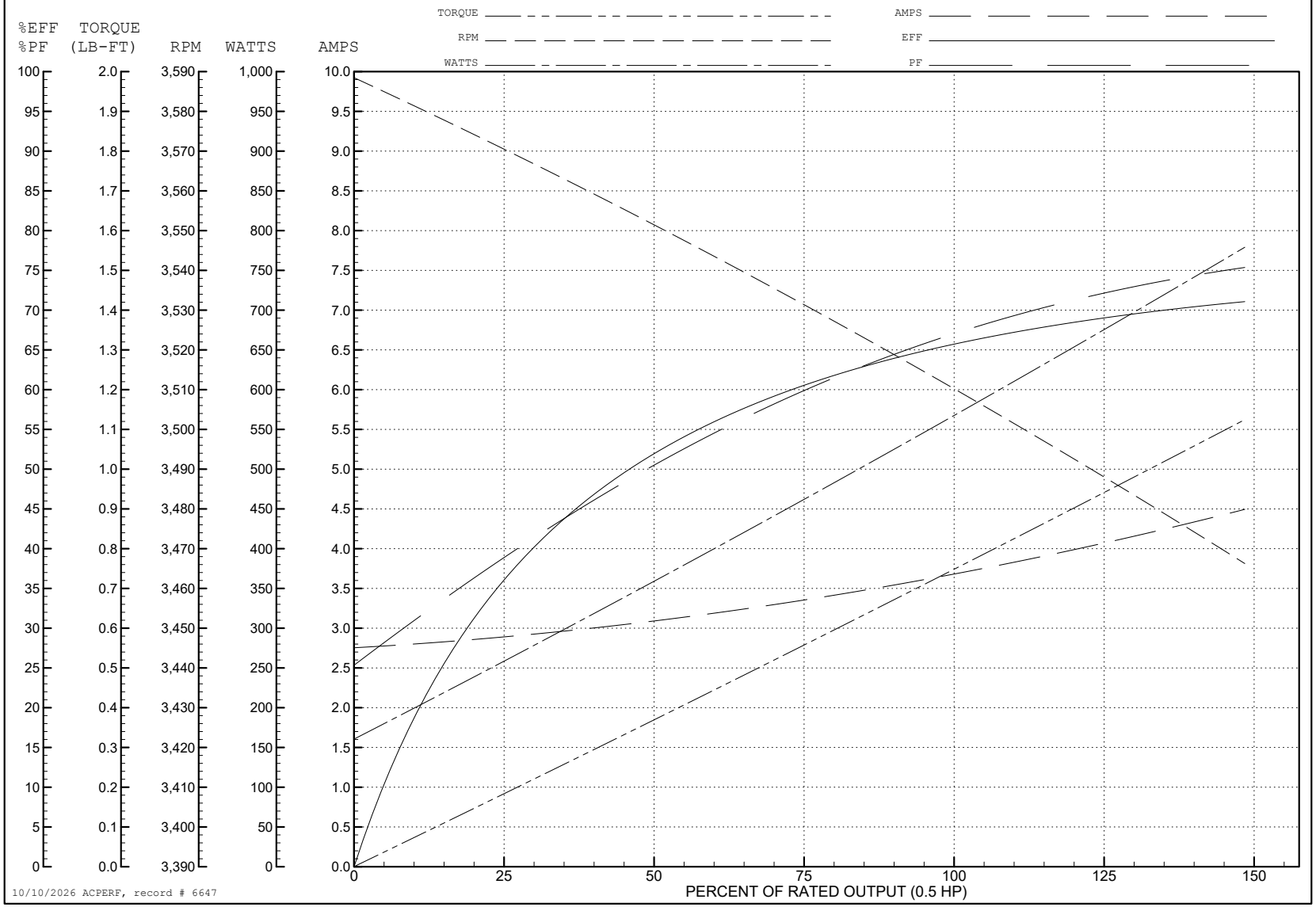
ABB Motors and Mechanical Inc.

WINDING # 34WG2413

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

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.3 PU=1.9 LR=2 LRA=20



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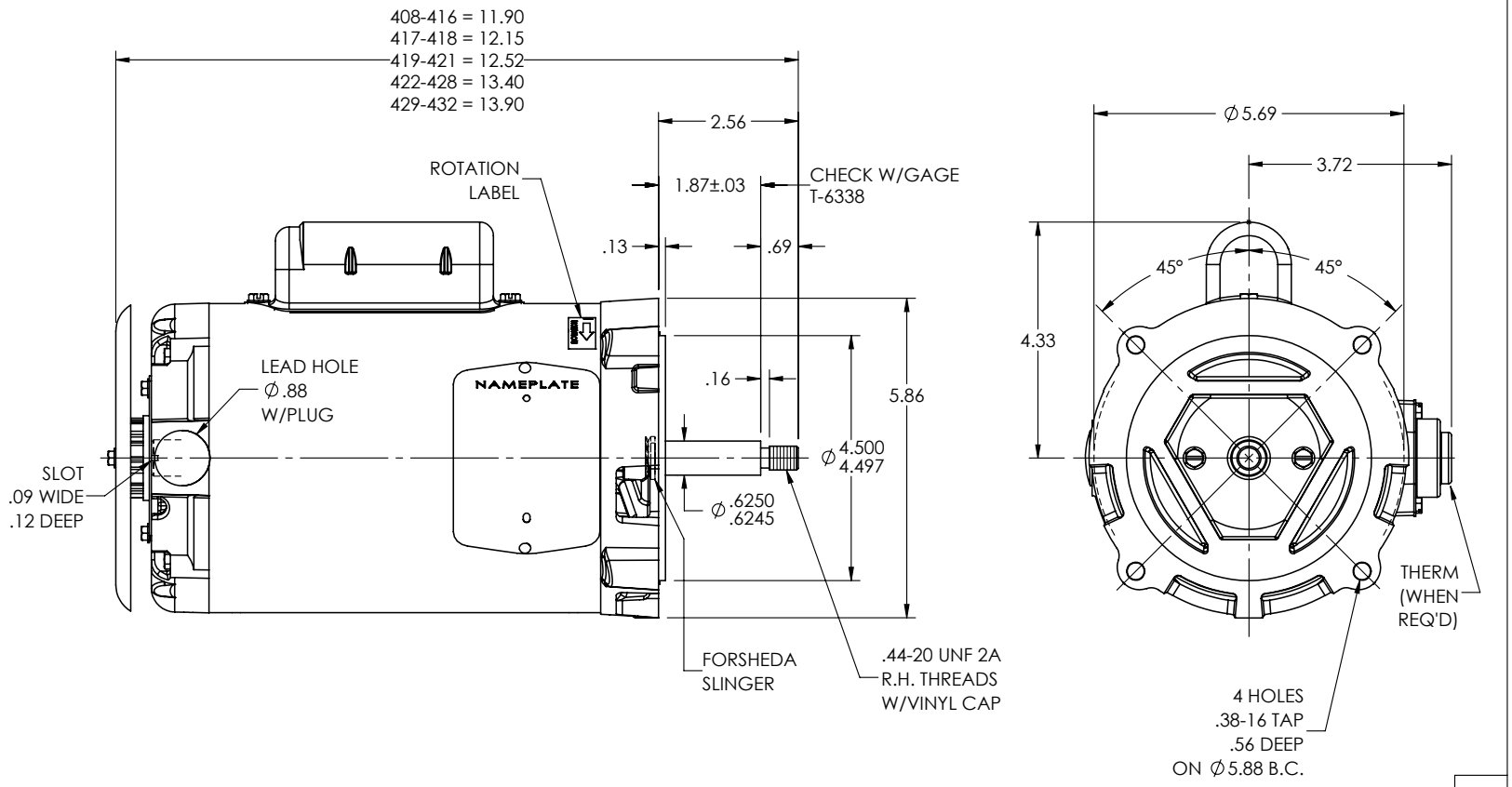


34LYF036

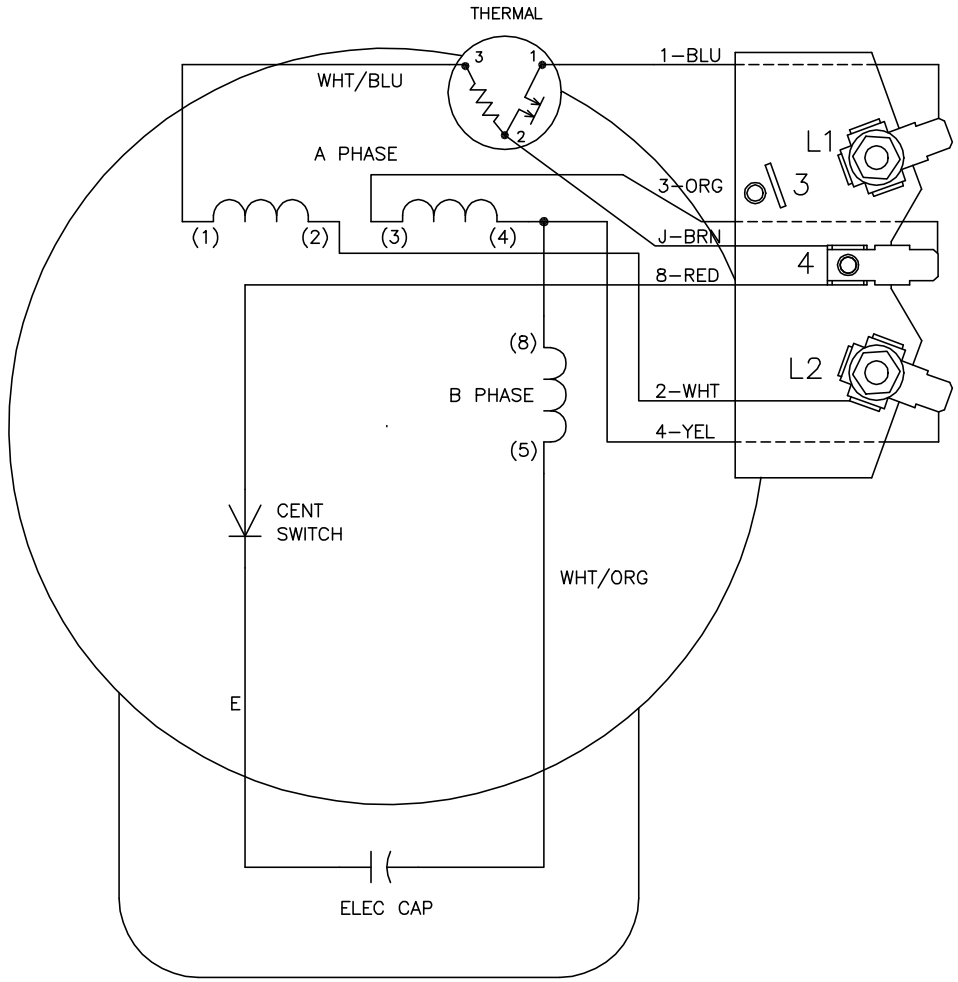
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

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

CD0307



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 OPPOSITE STANDARD ROTATION (CW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE 5 AND 8 INTERNALLY FOR STANDARD ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373039	
CD0307	FILE: \AAA\00007\308	REVISED: 11:45:00 08/11/2005	TYPE L, DV, FIX ROT, THERMAL, TERMINAL PLATE (OPP STD)
	MTL: –	BY: ENJOEP0	

CD0307