

ABB BALDOR RELIANCE III

Customer information packet

JL1303A

.5HP, 3450RPM, 1PH, 60HZ, 56J, 3420L, OPEN, F1

Class - None

Division - Not Applicable

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	No-load Current		2.75 A	
Service Factor (S.F.)		1.6	Line-line Res. @ 25°C		3.55 Ω A Ph 2.56 Ω B Ph	
NEMA Nom. Eff.		66	Power Factor		67	
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

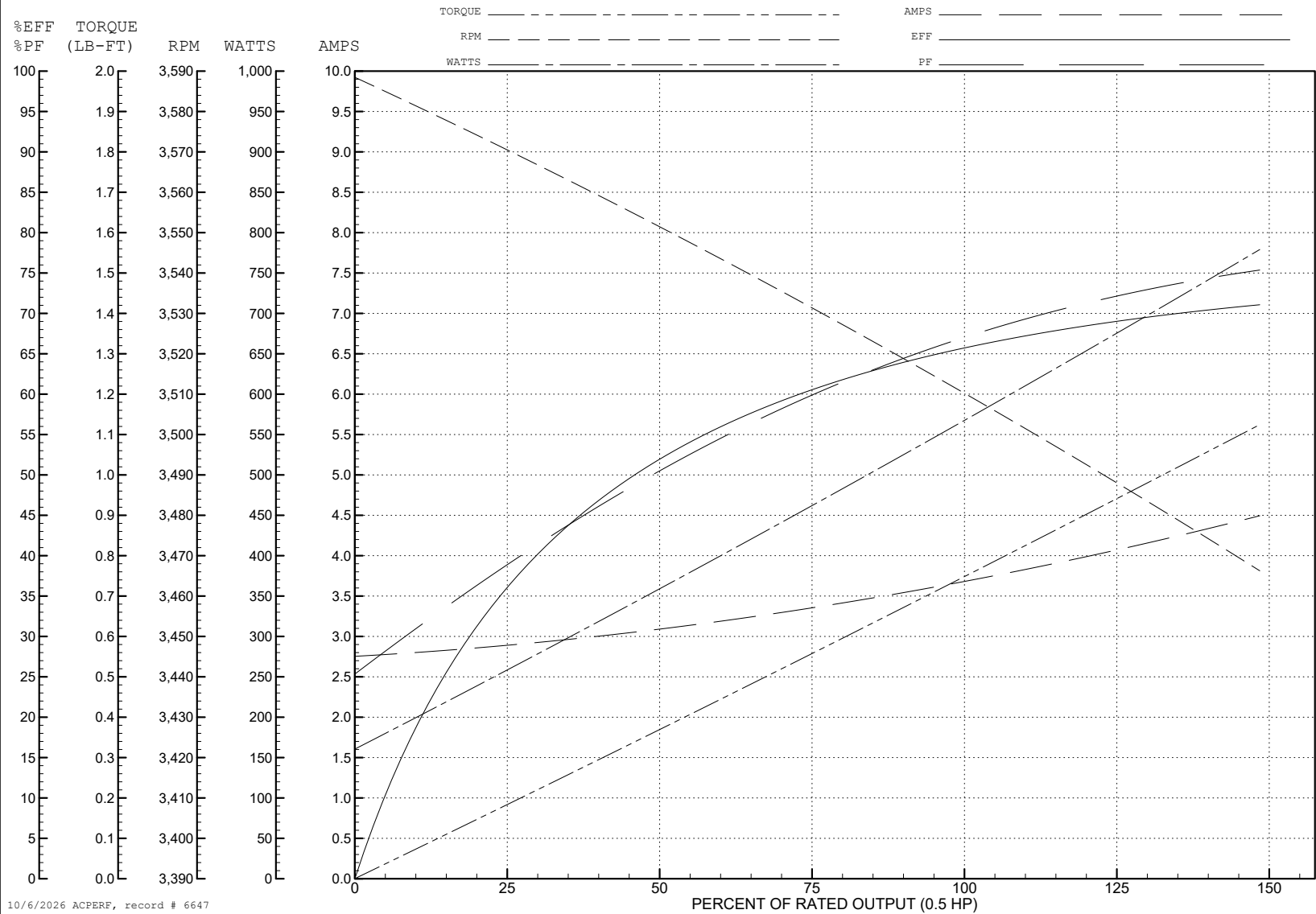
ABB Motors and Mechanical Inc.

WINDING # 34WG2413

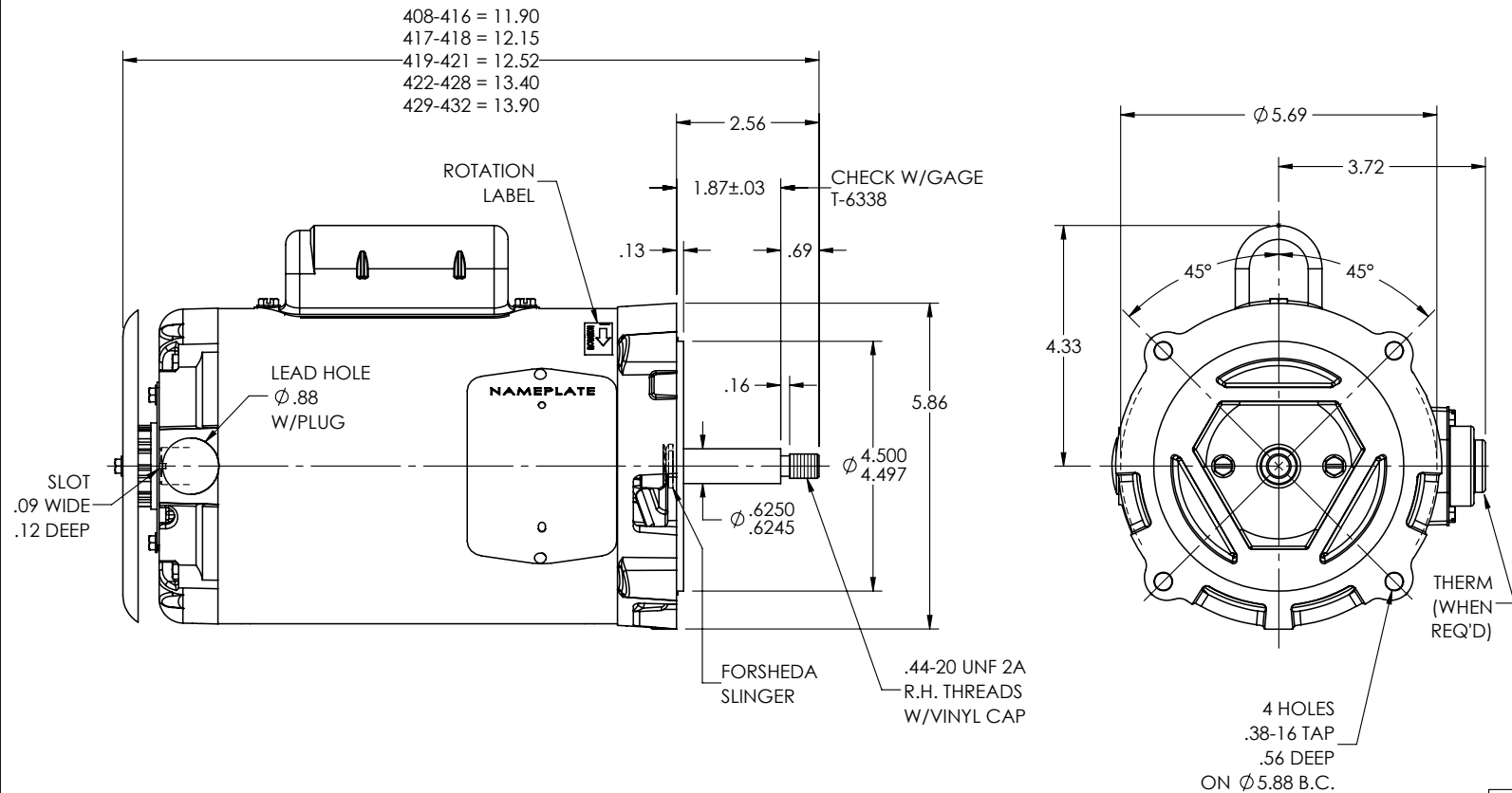
Typical performance - not guaranteed values.

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

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



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

BALDOR - RELIANCE®

34LYF036

MODEL NO. 34LYF036

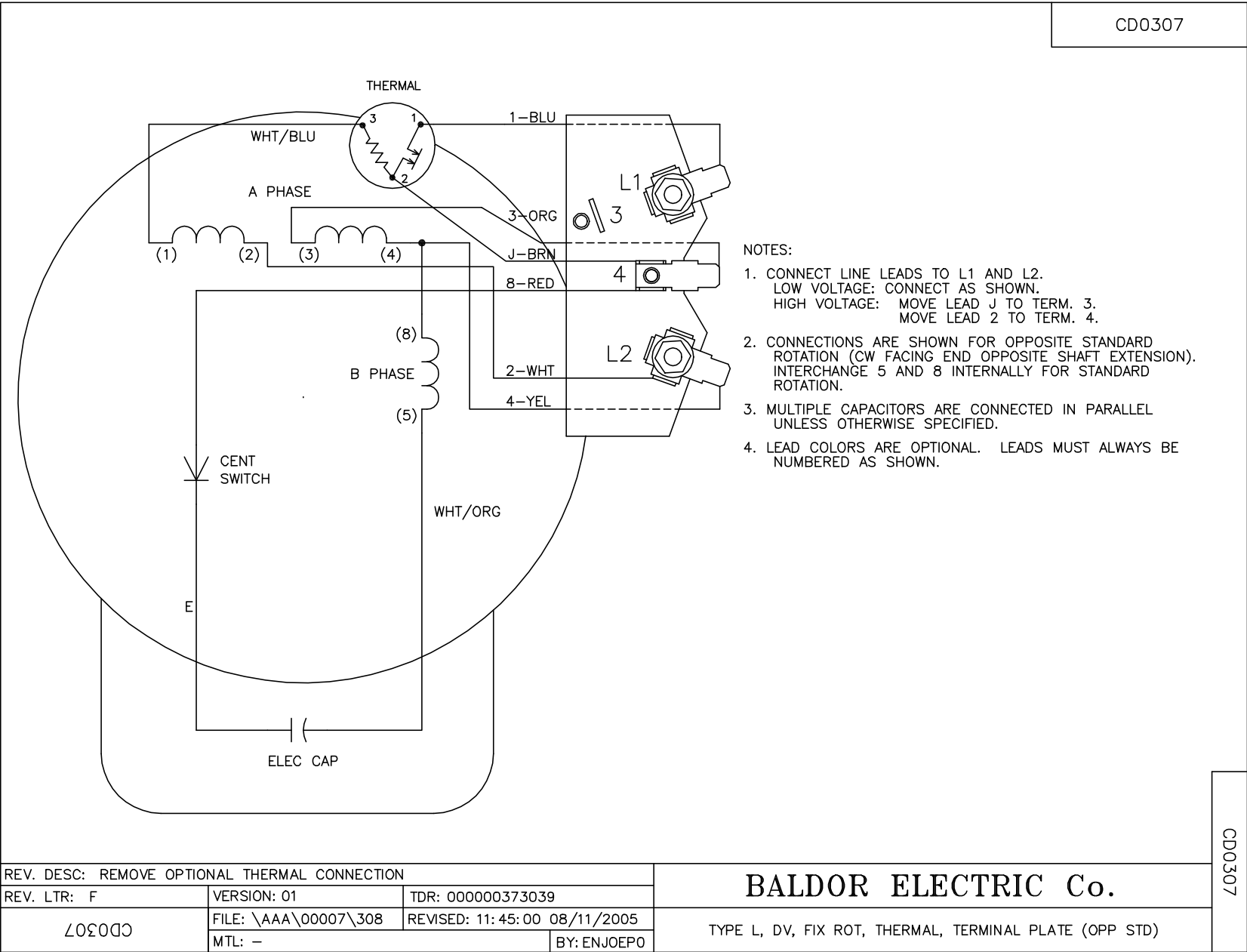
REF: -

BY: ENJEFD0

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

34LYF036

CD0307



REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION		
REV. LTR: F	VERSION: 01	TDR: 000000373039
CD0307	FILE: \AAA\00007\308	REVISED: 11:45:00 08/11/2005
	MTL: -	BY: ENJOEP0

BALDOR ELECTRIC Co.

TYPE L, DV, FIX ROT, THERMAL, TERMINAL PLATE (OPP STD)

CD0307