

ABB BALDOR RELIANCE III

Customer information packet

JL1205A

.33HP, 3450RPM, 1PH, 60HZ, 56J, 3416L, 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	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	CSA UR
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	6.200 A @ 115.0 V 3.100 A @ 230.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	58.0 %
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	3.1 a

Part Detail

Revision	Q
Type	AC
Mech. spec.	34F036
Base	
Status	PRD/A
Elec. spec.	34WG2534
Layout	34LYF036
Eff. date	12-31-2024
CD Diagram	CD0203
Poles	02
Leads	5#18,1#16 #1TH
Proprietary	False
Created date	02-22-2010

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	3416L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.89 IN
Power Factor	61
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	1.75
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

Winding Thermal 2

None

Nameplate

NP1257L											
CAT.NO.	JL1205A										
SPEC.	34F036-2534G4										
HP	.33										
VOLTS	115/230										
AMP	6.2/3.1										
RPM	3450										
FRAME	56J				HZ		60		PH		1
SER.F.	1.75		CODE		L	DES		N	CL		B
NEMA-NOM-EFF	58		PF		61						
RATING	40C AMB-CONT										
CC											
DE	6203		ODE		6203						
ENCL	OPEN		SN								
	SFA 7.6/3.8										

Parts List

Part number	Description	Quantity
SA191157	SA 34F036-2534G4	1.000 ea
RA178819	RA 34F036-2534G4	1.000 ea
EC1130A02SP	ELEC CAP, 130-156 MFD, 125V, 1.48D X 3.3	1.000 ea
34EP3202A02	FR ENDPLATE, MACH	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
34EP3401A01SP	PU ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
34AD2000	BAFFLE PLATE, STAMPED	1.000 ea
60XW0632A06	6-32 X 3/8 TORX HEAD SCREW TAPTITE II	4.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FH4500A02P	DRIPCOVER, MODEL 34	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
RM1010A01	35-968-1 VINYL CLS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5068A01	34L TERM PANEL STAT SWITCH #E-6"	1.000 ea
HA3100A14	THRUBOLT 10-32 X 7.875	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0546	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea

PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	5.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	1.000 ea

AC Induction Motor Performance Data

Record # 6650

Typical performance - not guaranteed values

Winding: 34WG2534-R001			Type: 3416L		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.33		Full Load Torque		0.5 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		6.2/3.1		Breakdown Torque		1.7 LB-FT
R.P.M.		3450		Pull-up Torque		1.5 LB-FT
Hz		60 Phase		Locked-rotor Torque		1.6 LB-FT
NEMA Design Code		N KVA Code		Starting Current		14.5 A
Service Factor (S.F.)		1.75		No-load Current		2.55 A
NEMA Nom. Eff.		58 Power Factor		Line-line Res. @ 25°C		4.92 Ω A Ph 3.95 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		31°C
S.F. Amps		7.6/3.8		Temp. Rise @ S.F. Load		43°C

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	48	56	63	69	73	81
Efficiency	26	40.6	49.5	55.3	59.1	61.6	66.7
Speed	3561	3544	3525	3505	3484	3461	3442
Line amperes	2.6	2.75	2.9	3.05	3.3	3.55	3.8

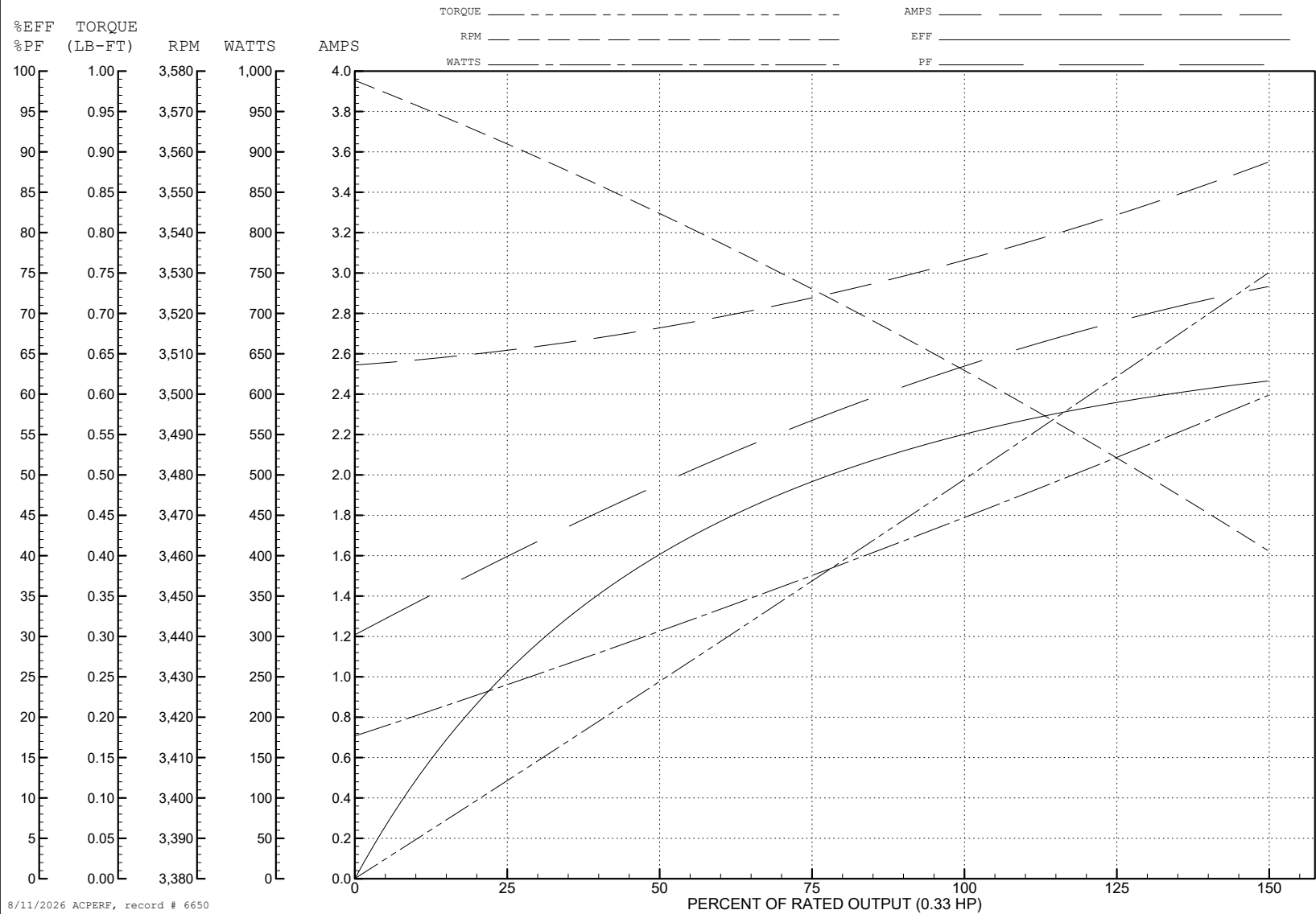
ABB Motors and Mechanical Inc.

WINDING # 34WG2534

Typical performance - not guaranteed values.

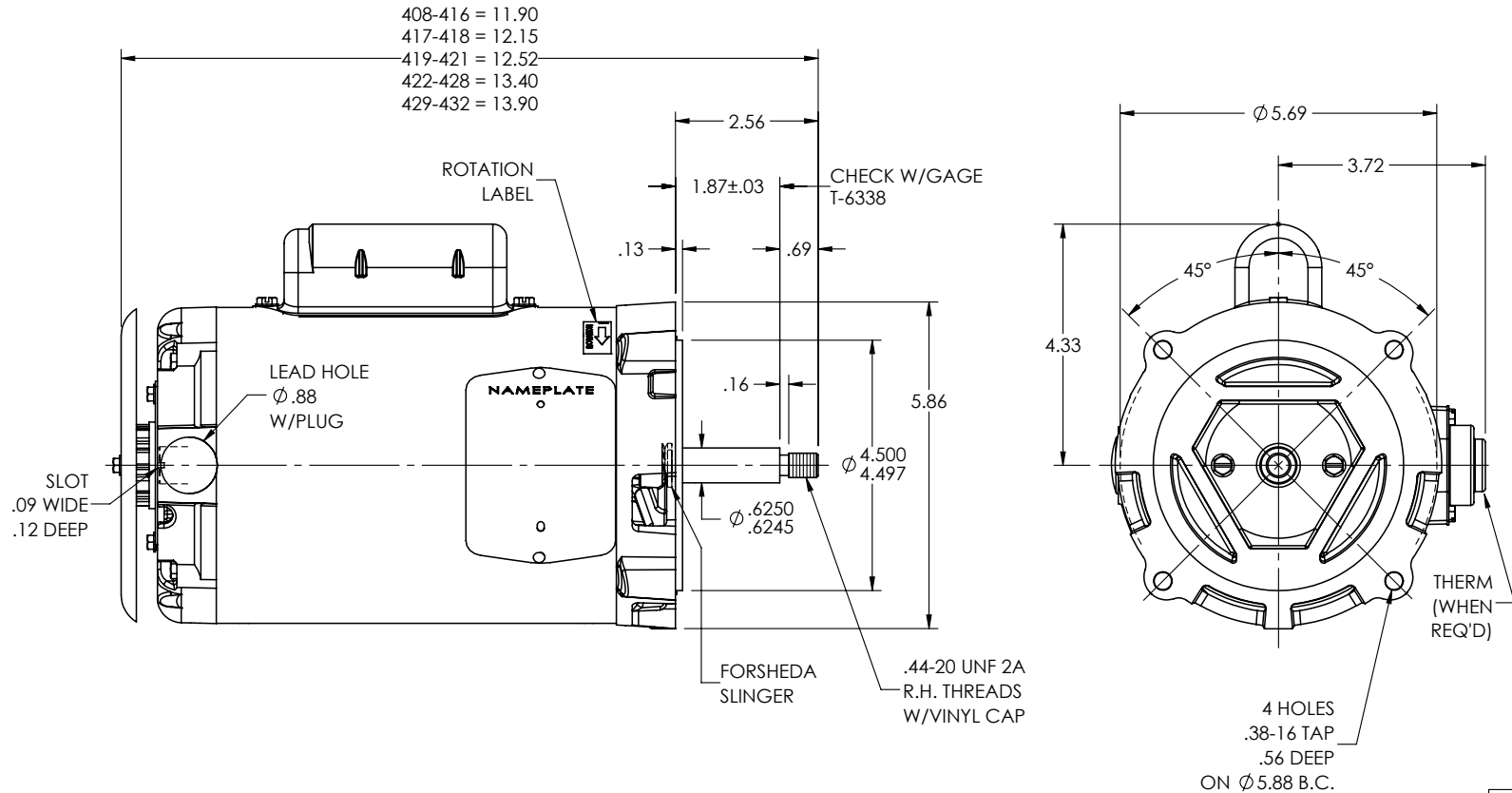
0.33 HP 1 PH 60 HZ 3450 RPM 230 V 3416L

TORQUES (LB-FT): PO=1.7 PU=1.5 LR=1.6 LRA=14.5



8/11/2026 ACPERF, record # 6650

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

BY: ENJEFD0

REF: -

BALDOR - RELIANCE®

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

34LYF036

CD0203

