ABB BALDOR RELIANCE

Customer information packet

CJL1301A

.33HP, 1725RPM, 1PH, 60HZ, 56J, 3414L, OPEN, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 12:32:59 PM

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	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	208.0 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	3.000 A @ 230.0 V
	3.200 A @ 208.0 V
	3.600 A @ 208.0 V
	6.000 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting

Part Detail

Revision	AD
Type	AC
Mech. spec.	34F492
Base	
Status	PRD/A
Elec. spec.	34WG5599
Layout	34LYF492
Eff. date	09-15-2026
CD Diagram	CD0307
Poles	04
Leads	6#18 Y
Proprietary	False
Created date	01-01-0001

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
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	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.89 IN
Power Factor	60
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	1.35
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.	CJL1301A									
SPEC.	34F492-5599G1									
HP	.33									
VOLTS	115/208-230									
AMP	6/3.2-3									
RPM	1725									
FRAME	56J		**HZ**	60		**PH**	1			
SER.F.	1.35	**CODE**	L	**DES**	N	**CL**	B			
NEMA-NOM-EFF	60	**PF**	60							
RATING	40C AMB-CONT									
CC										
DE	6203	**ODE**	6203							
ENCL	OPEN	**SN**								
	SFA 6.8/3.6-3.4									

AC Induction Motor Performance Data
Record # 50768
Typical performance - not guaranteed values

Winding: 34WG5599-R003	**Type:** 3414L	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.33	**Full Load Torque**	1 LB-FT
Volts			115/208-230	**Start Configuration**	direct on line
Full Load Amps			6/3.2-3	**Breakdown Torque**	2.95 LB-FT
R.P.M.			1725	**Pull-up Torque**	2.55 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	3.6 LB-FT
NEMA Design Code	N	**KVA Code**	L	**Starting Current**	13 A
Service Factor (S.F.)			1.35	**No-load Current**	2.6 A
NEMA Nom. Eff.	60	**Power Factor**	60	**Line-line Res. @ 25ºC**	6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			6.8/3.6-3.4	**Temp. Rise @ S.F. Load**	53°C

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	41	51	60	66	72	70
Efficiency	34	49	56	60	62	63	63
Speed	1783	1765	1745	1730	1710	1680	1695
Line amperes	2.6	2.7	2.8	3	3.3	3.7	3.4

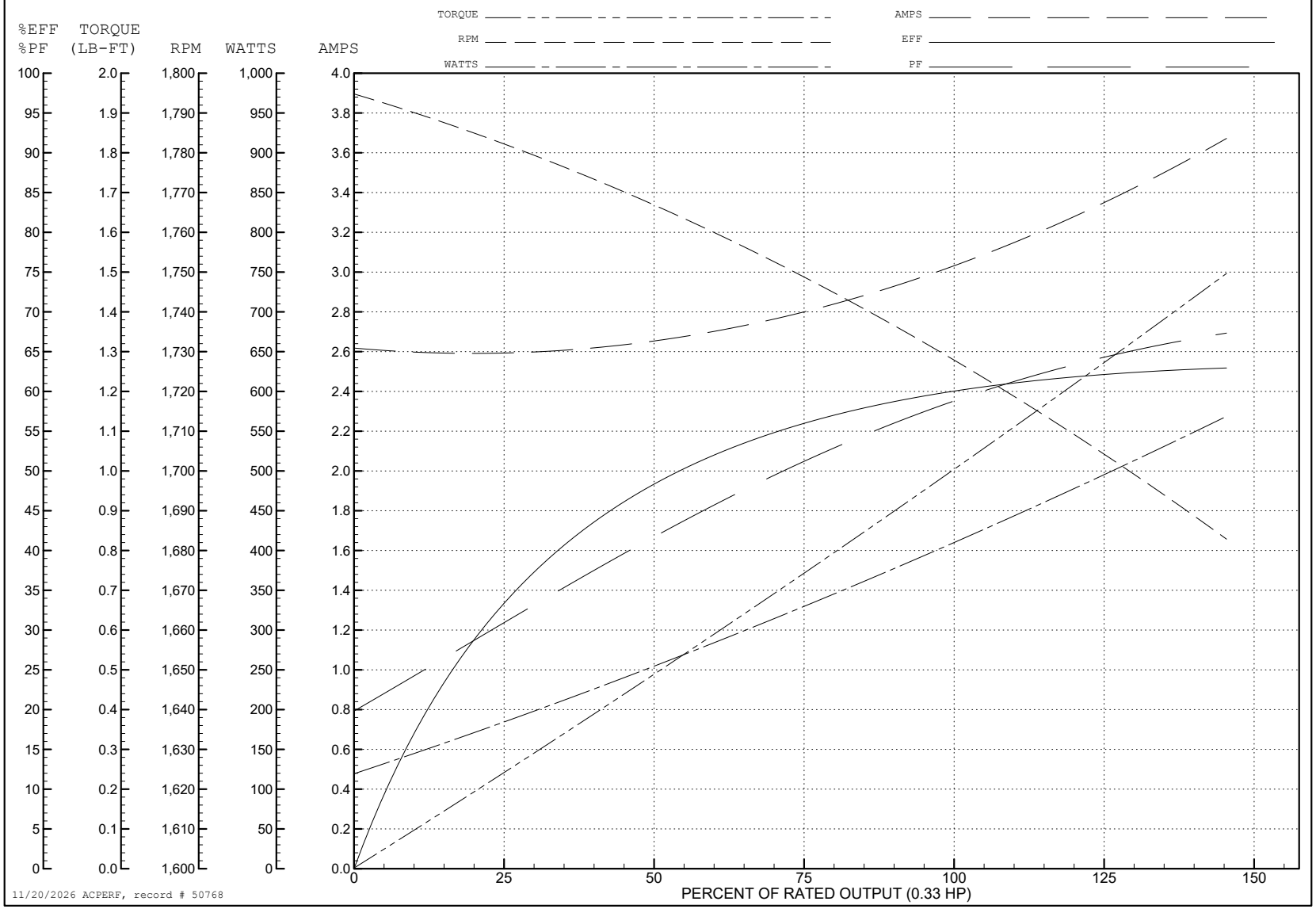
ABB Motors and Mechanical Inc.

WINDING # 34WG5599

0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

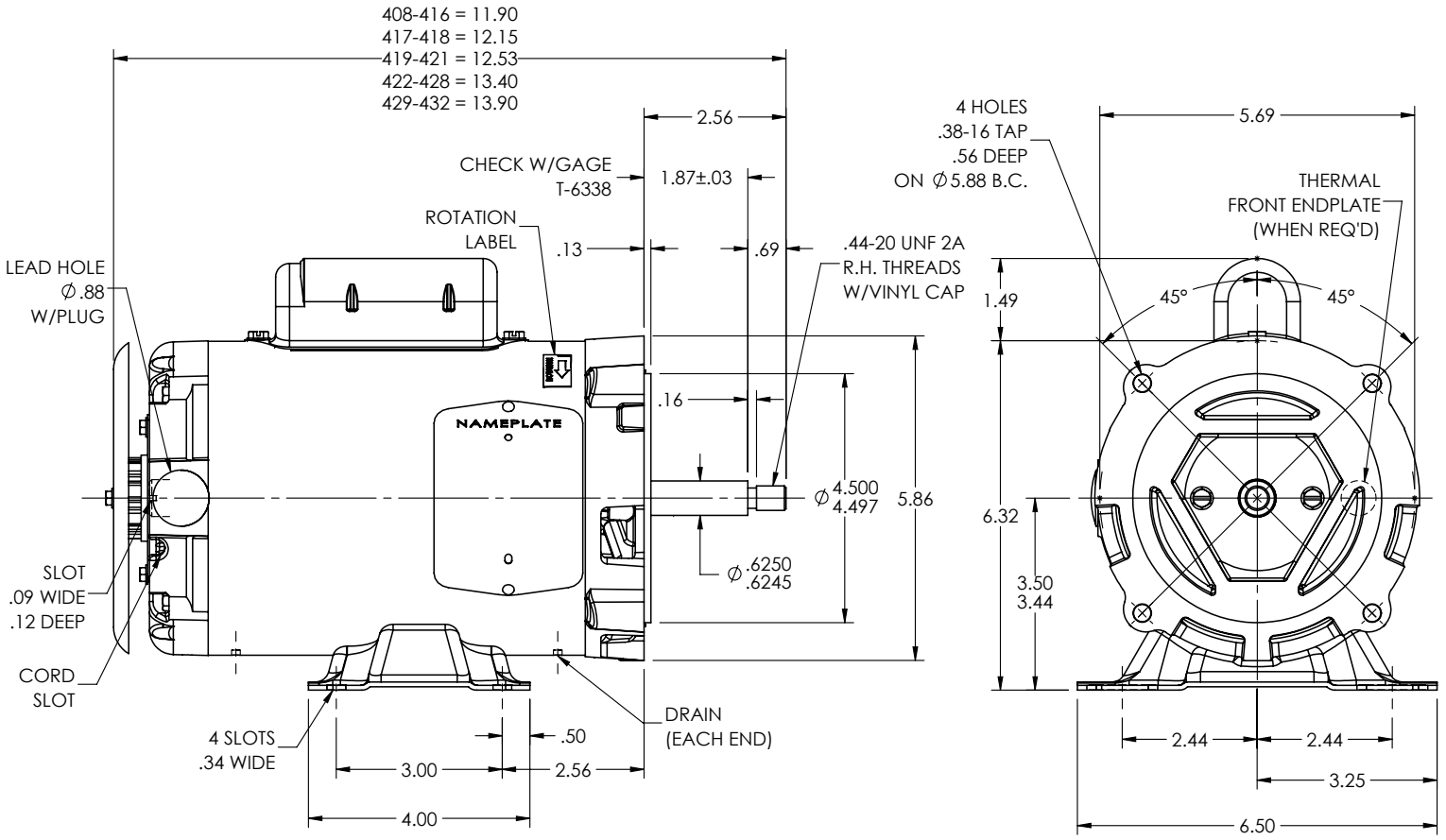
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13



11/20/2026 ACPERF, record # 50768

34LYF492



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

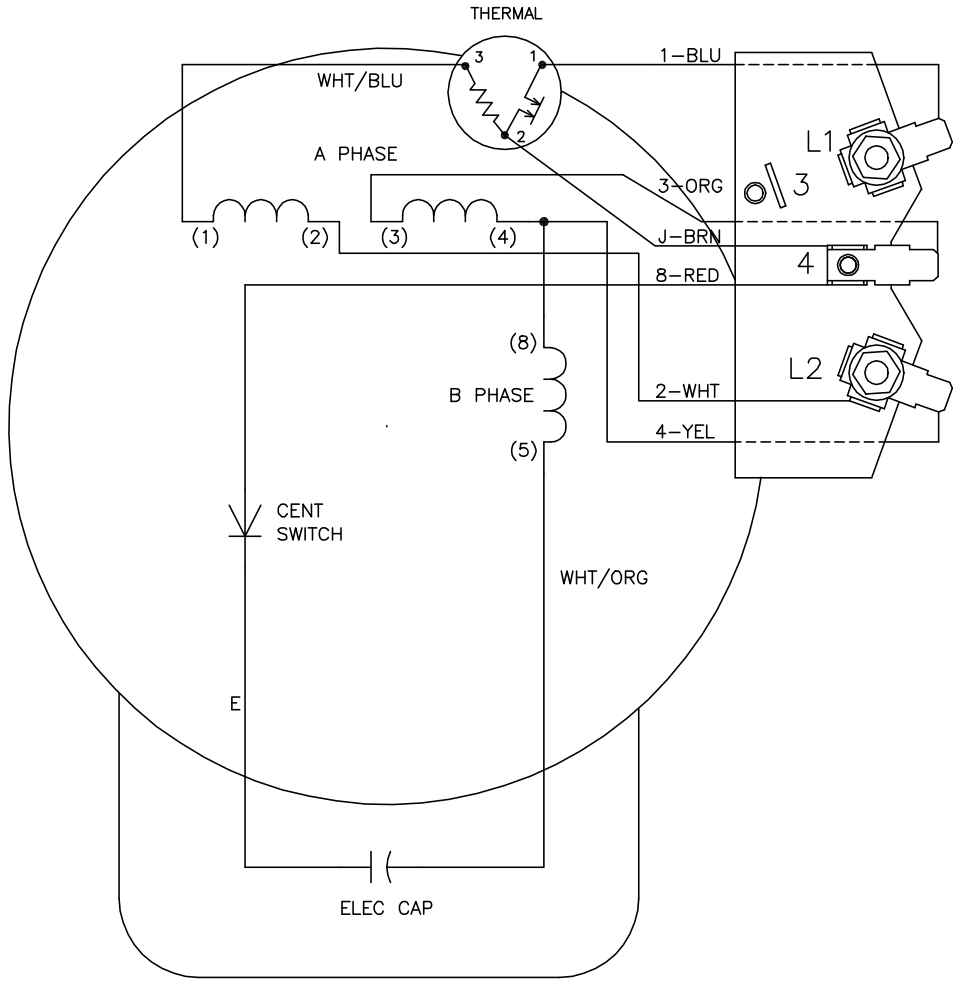
REV. DESC: LOAD TO SOLIDWORKS - REV A			
REV: B	VERSION: 02	REVISED: 11:38:57 12/29/2022	TDR: 000001201165
34LYF492	MODEL NO. 34LYF492		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

SPL HORZ 34L NEMA 56J OPEN W/DRIPCOVER, THERM IN T.P. EP

34LYF492

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