

ABB BALDOR RELIANCE III

Customer information packet

CJL1301A

.33HP, 1725RPM, 1PH, 60HZ, 56J, 3414L, 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	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	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. @ 25°C		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

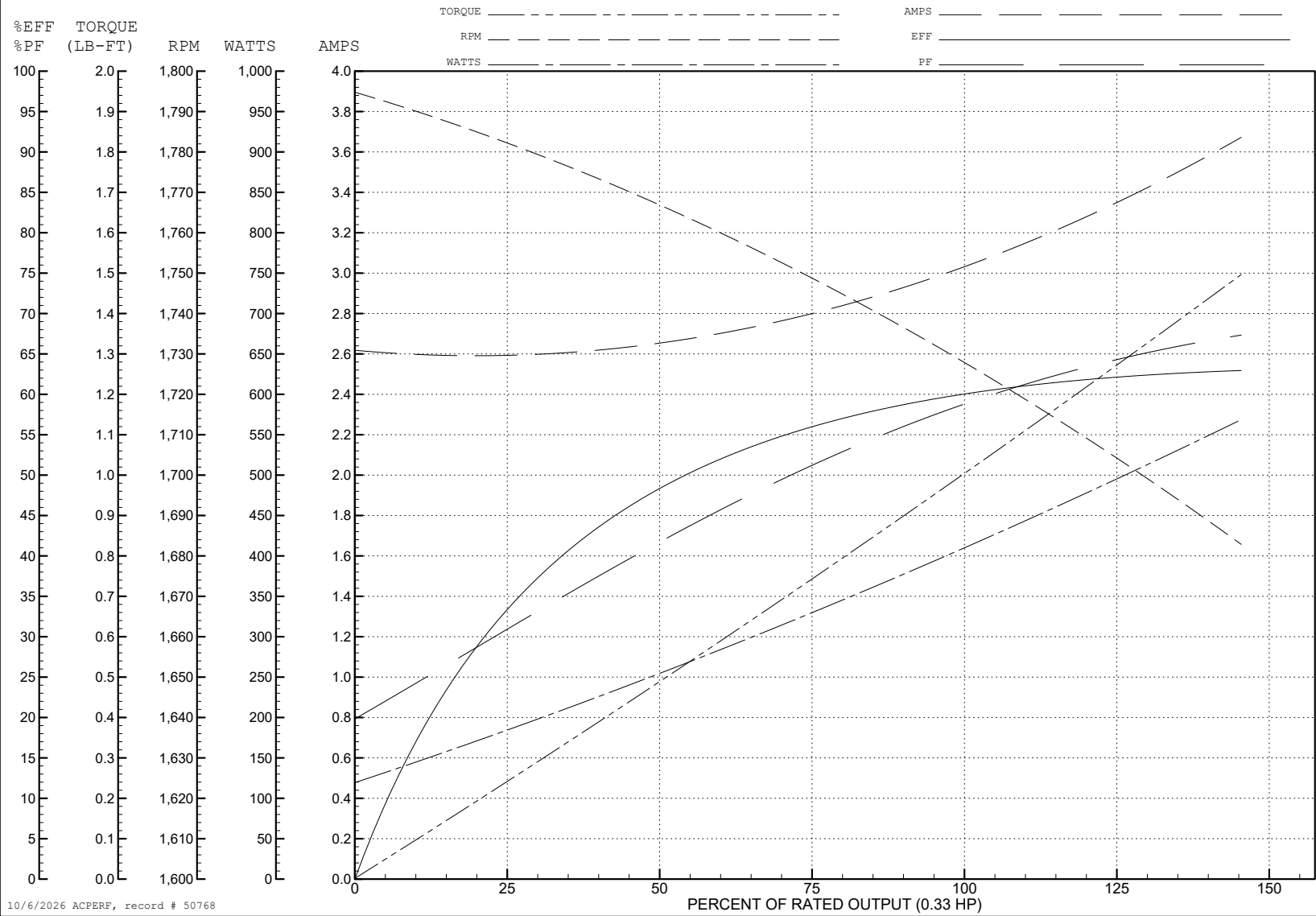
ABB Motors and Mechanical Inc.

WINDING # 34WG5599

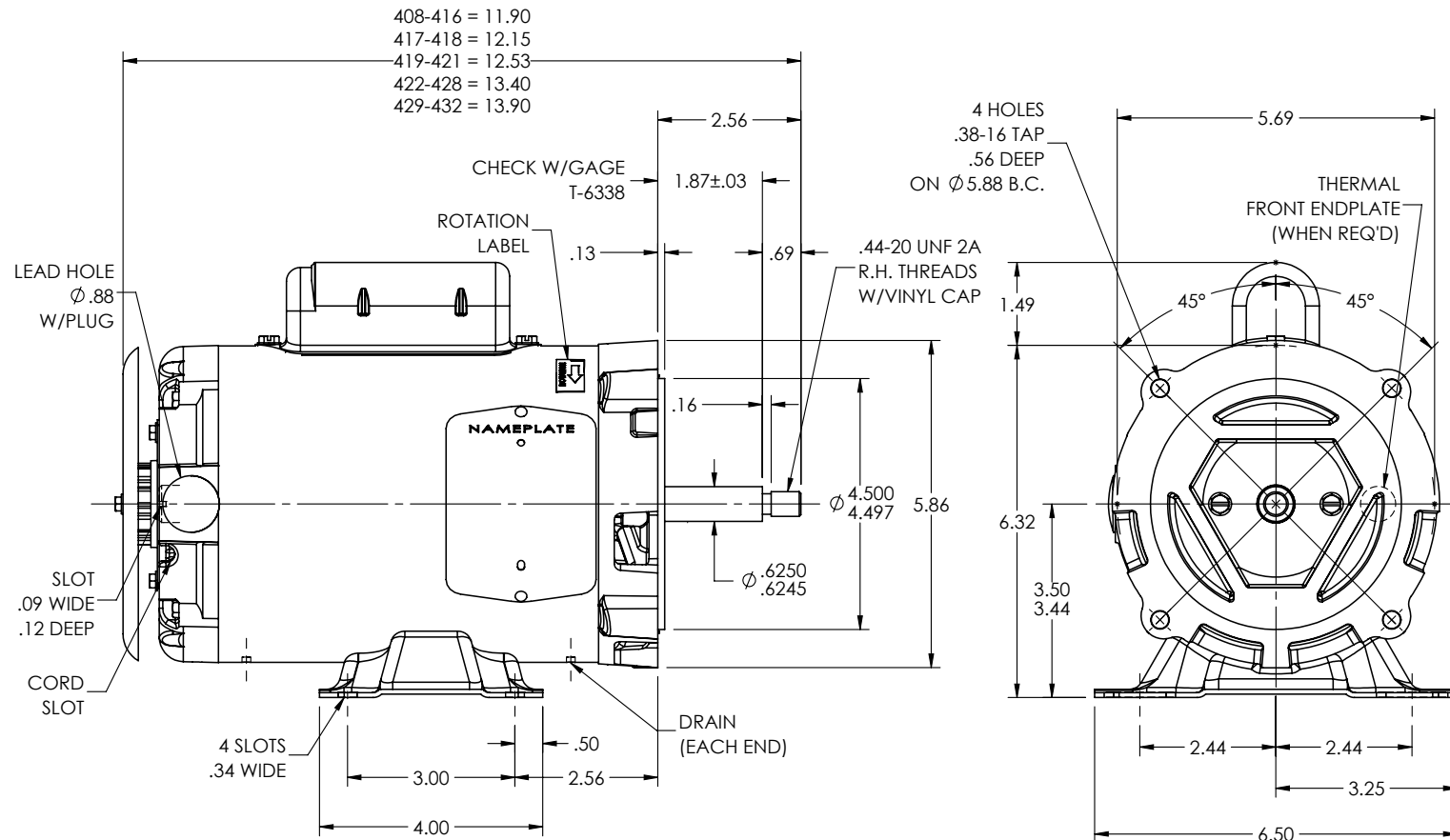
Typical performance - not guaranteed values.

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

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



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

BALDOR - RELIANCE®

34LYF492

MODEL NO. 34LYF492

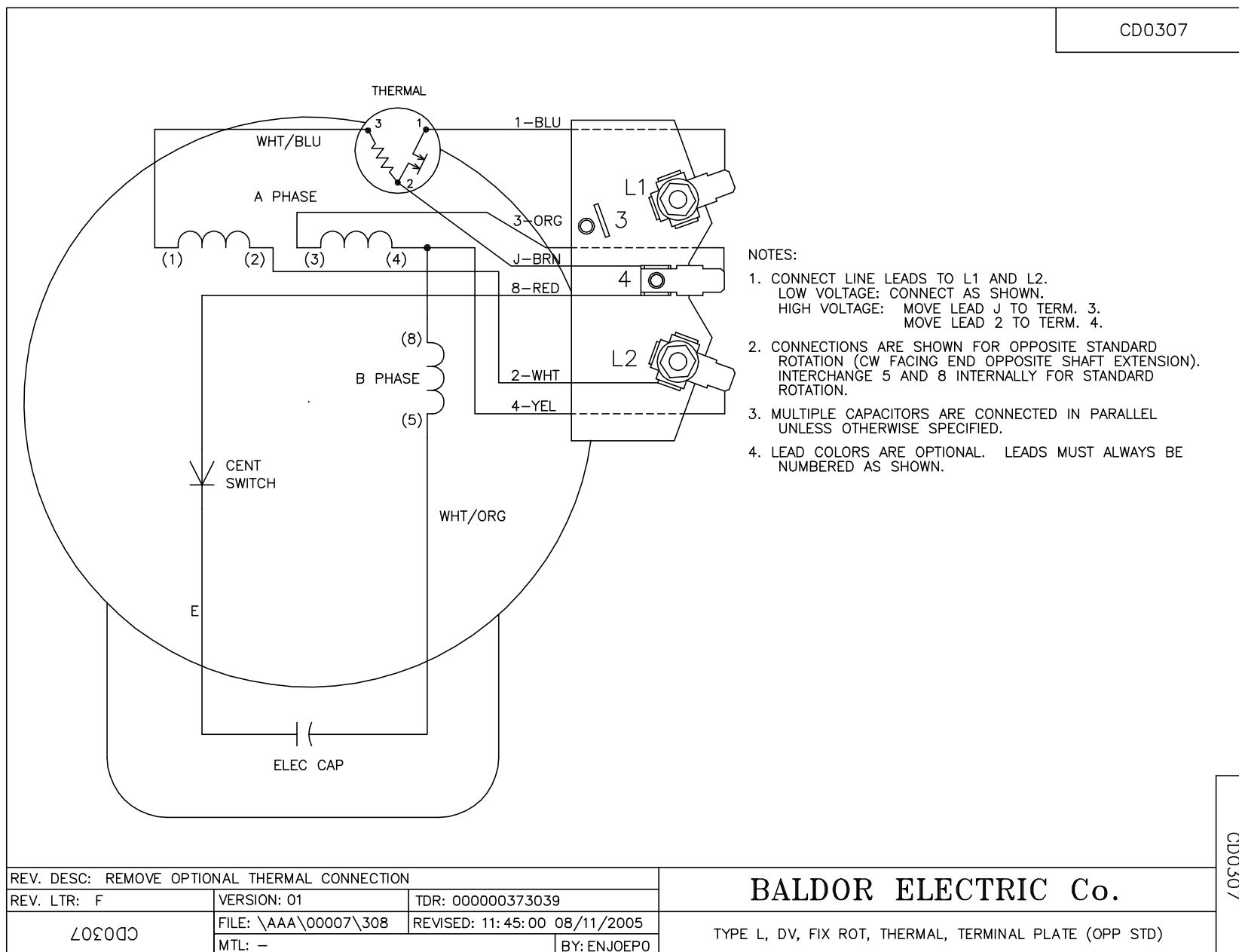
BY: ENFRAJ0

REF: -

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

34LYF492

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