

ABB BALDOR RELIANCE III

Customer information packet

CJL1304A

.5HP, 1725RPM, 1PH, 60HZ, 56J, 3418L, 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	1800 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.200 A @ 230.0 V 4.800 A @ 208.0 V 8.400 A @ 115.0 V
Design Code	N
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AJ
Type	AC
Mech. spec.	34F030
Base	
Status	PRD/A
Elec. spec.	34WG5595
Layout	34LYF030
Eff. date	12-31-2024
CD Diagram	CD0307
Poles	04
Leads	5#18,1#16 #1TH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	4.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
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	3418L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.14 IN
Power Factor	62
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	1.25
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.	CJL1304A										
SPEC.	34F30-5595										
HP	.5										
VOLTS	115/230										
AMP	8.4/4.2										
RPM	1725										
FRAME	56J			HZ		60		PH		1	
SER.F.	1.25		CODE	K	DES		N	CL	B		
NEMA-NOM-EFF	62		PF	62							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	OPEN	SN									
	SFA 9.2/4.6										

AC Induction Motor Performance Data

Record # 6782

Typical performance - not guaranteed values

Winding: 34WG5595-R001			Type: 3418L		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.5		Full Load Torque		1.5 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		8.4/4.2		Breakdown Torque		4.35 LB-FT
R.P.M.		1725		Pull-up Torque		3.75 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		5.03 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		18 A
Service Factor (S.F.)		1.25		No-load Current		3.4 A
NEMA Nom. Eff.		62	Power Factor	Line-line Res. @ 25°C		4.24 Ω A Ph 3.24 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		66°C
S.F. Amps		9.2/4.6		Temp. Rise @ S.F. Load		78°C

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	42	53	62	69	77	69
Efficiency	36	52	60	64	65	65	65
Speed	1780	1765	1750	1730	1711	1685	1711
Line amperes	3.45	3.6	3.85	4.2	4.6	5.2	4.6

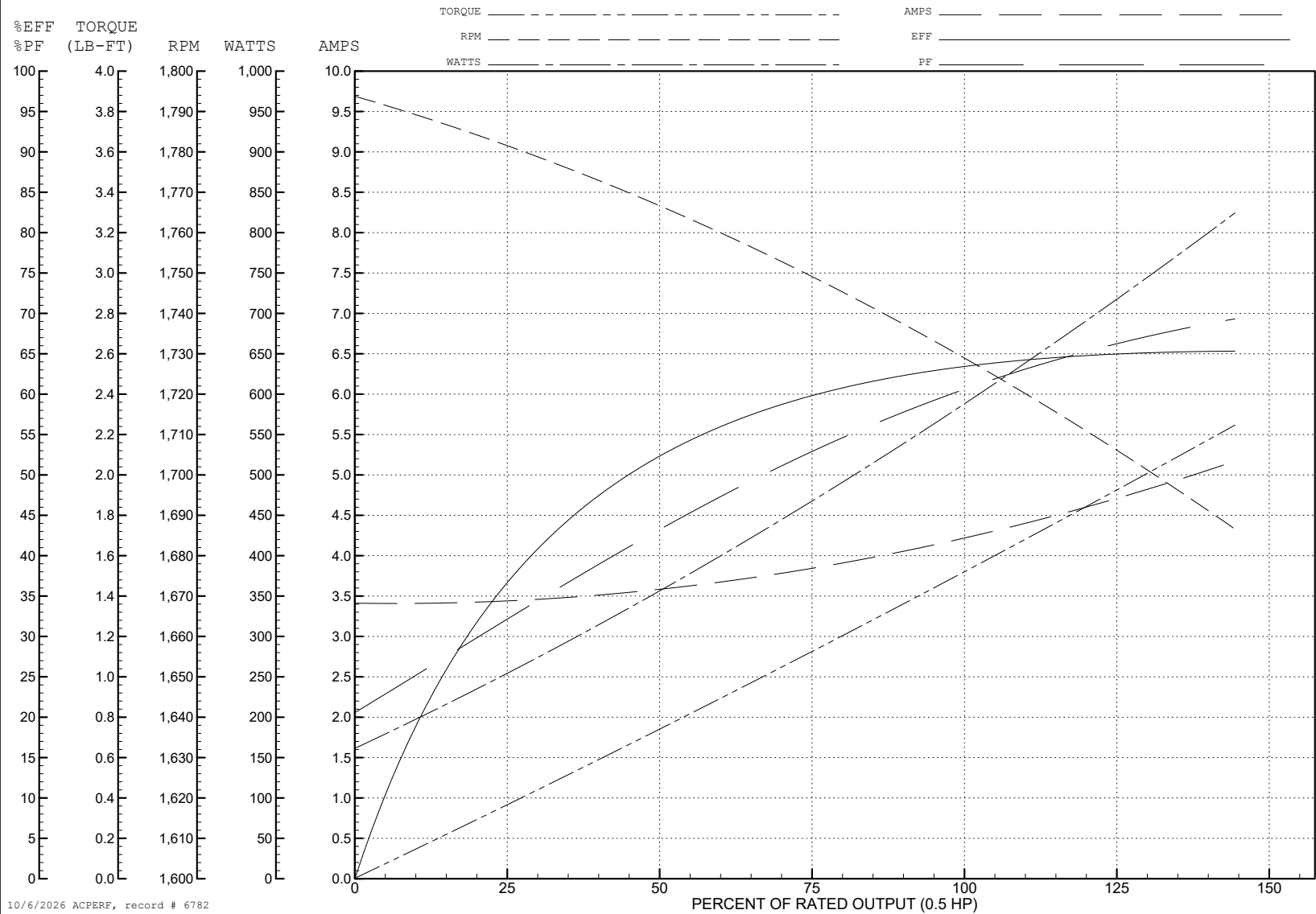
ABB Motors and Mechanical Inc.

WINDING # 34WG5595

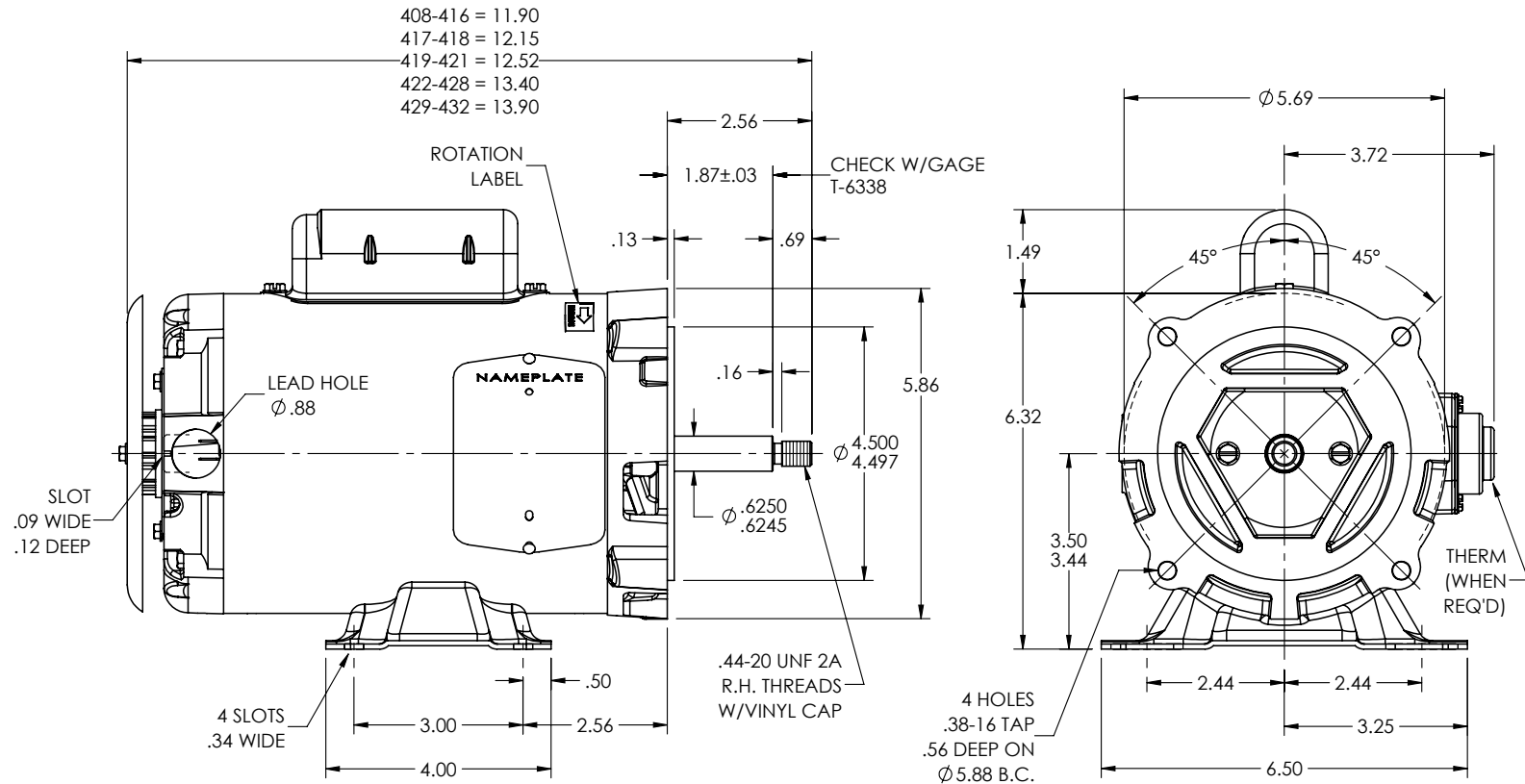
Typical performance - not guaranteed values.

0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3418L

TORQUES (LB-FT): PO=4.35 PU=3.75 LR=5.03 LRA=18



34LYF030



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

REV. DESC: CLEAN UP DIMENSIONING

REV: H

VERSION: 03

REVISED: 02:41:53 08/29/2025

TDR: 000001262510

34LYF030

MODEL NO. 34LYF030

BY: ENJEFD0

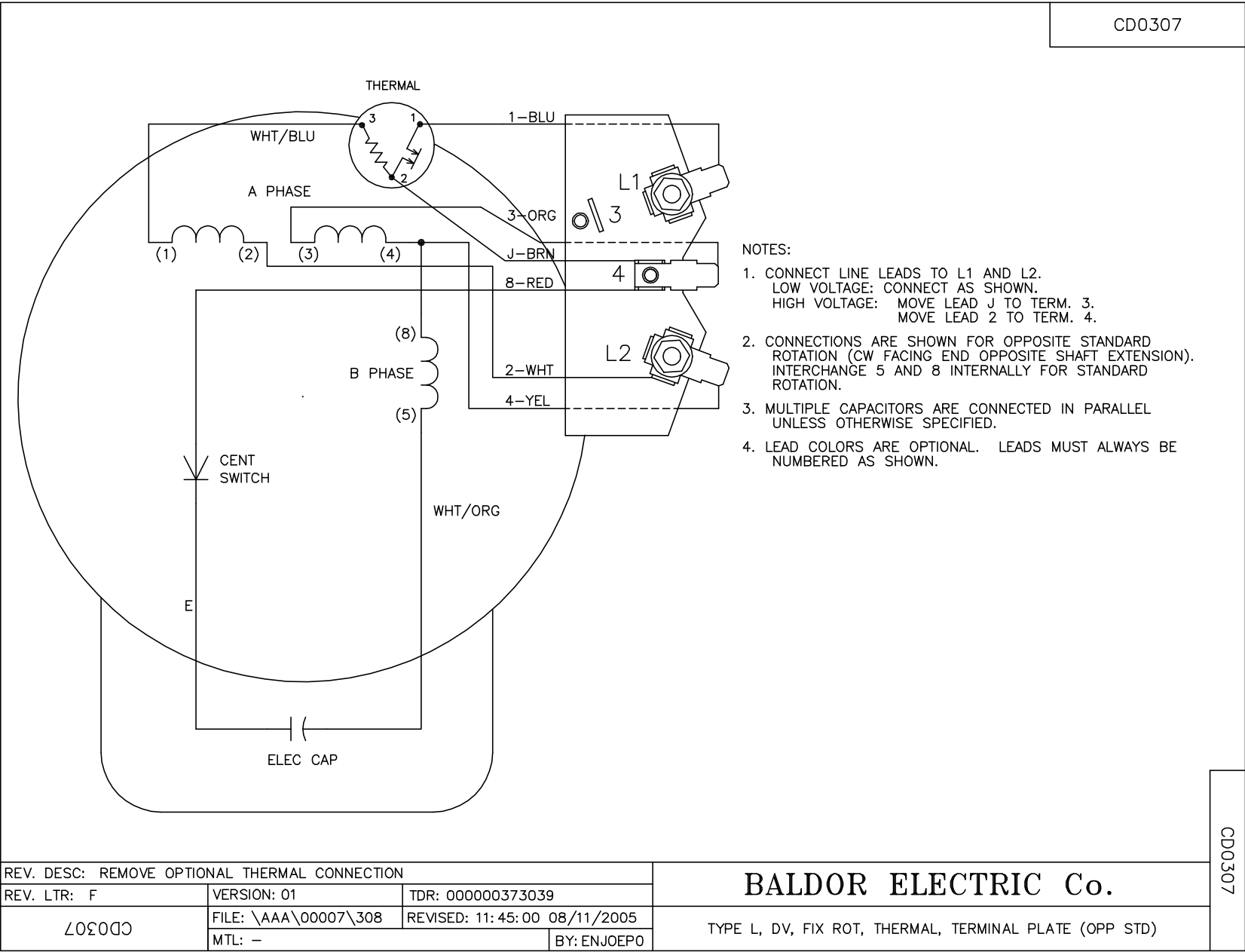
REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 56J OPEN W/DRIPCOVER & TERM PLATE

34LYF030

CD0307



CD0307