

ABB BALDOR RELIANCE III

Customer information packet

JL1304A

.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	No Mounting
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	AB
Type	AC
Mech. spec.	34F036
Base	
Status	PRD/A
Elec. spec.	34WG5595
Layout	34LYF036
Eff. date	12-31-2024
CD Diagram	CD0203
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.	JL1304A										
SPEC.	34F036-5595										
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										

Parts List

Part number	Description	Quantity
SA018285	SA 34F036-5595	1.000 ea
RA014435	RA 34F036-5595	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D X 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
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	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
HA3100A28	THRUBOLT 10-32 X 8.187	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

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	K	Starting Current		18 A
Service Factor (S.F.)		1.25		No-load Current		3.4 A	
NEMA Nom. Eff.		62	Power Factor	62	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

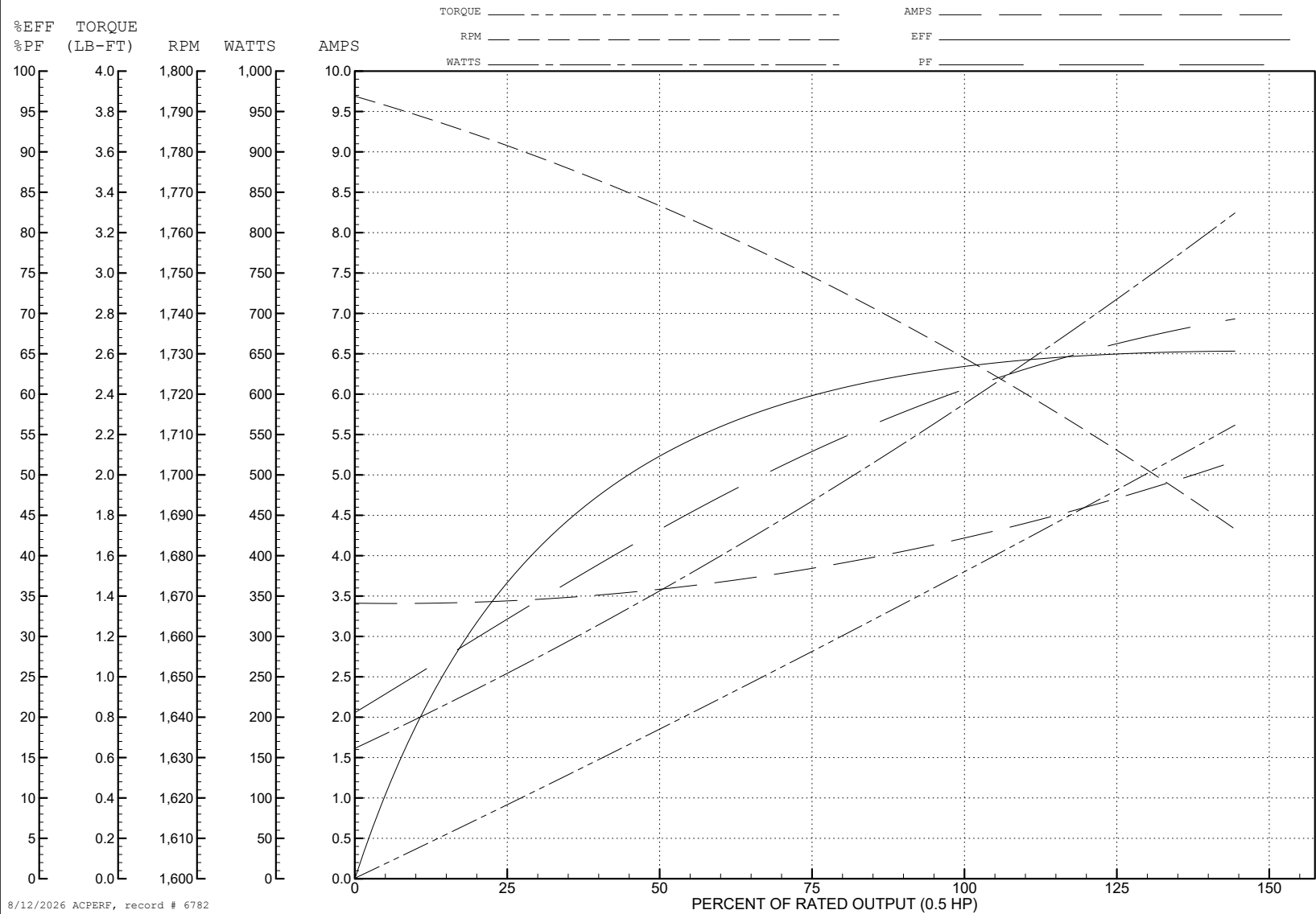
ABB Motors and Mechanical Inc.

WINDING # 34WG5595

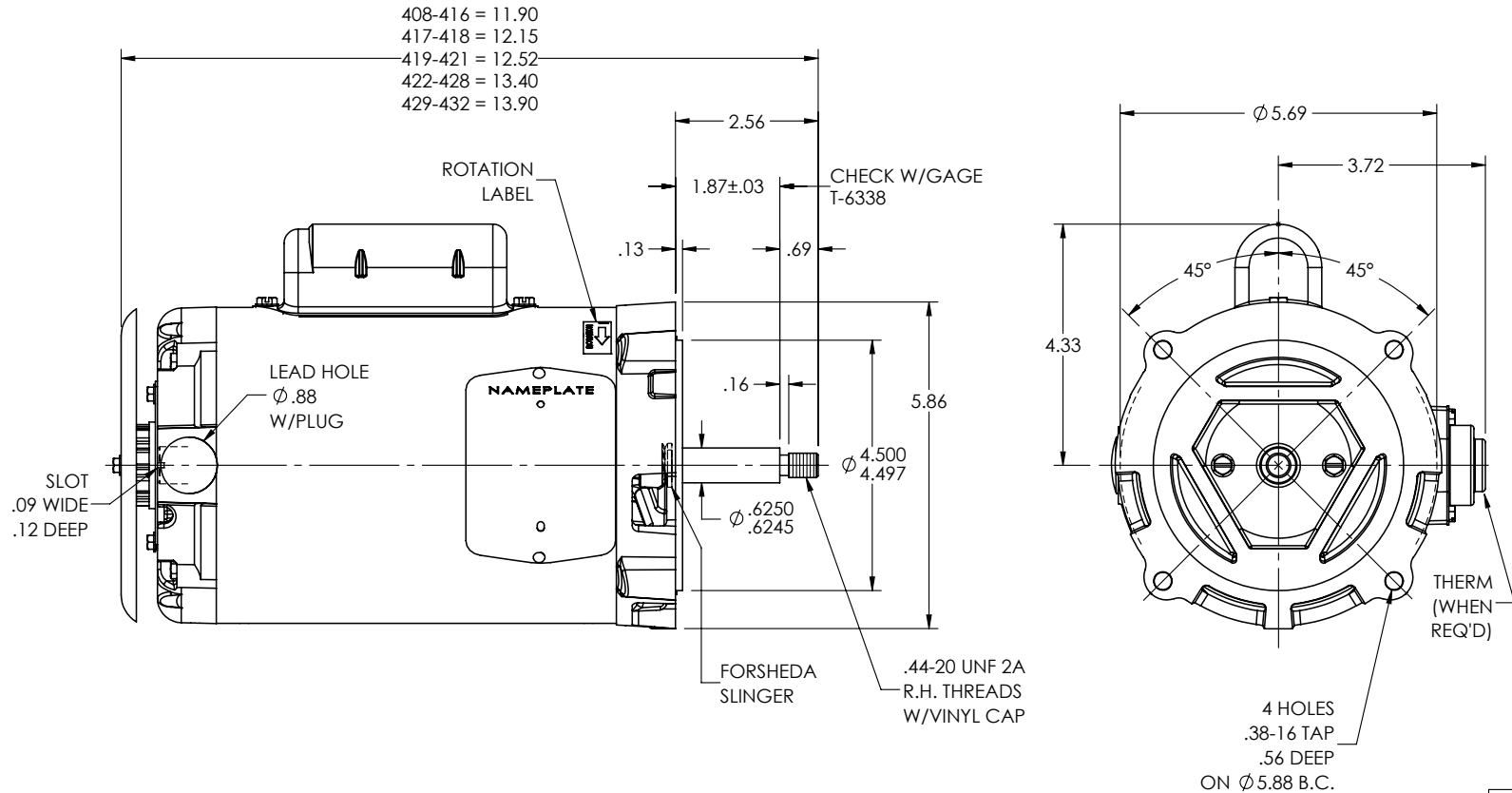
Typical performance - not guaranteed values.

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



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

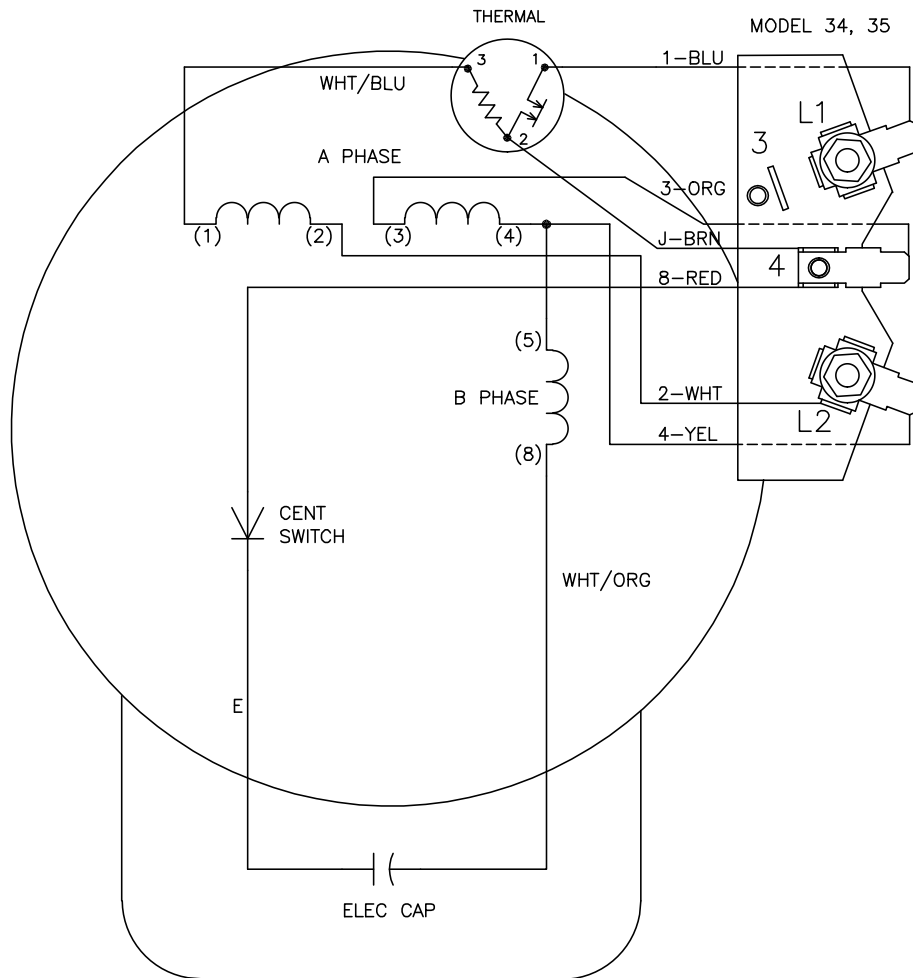
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BALDOR - RELIANCE®

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

34LYF036

CD0203



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 STANDARD
ROTATION (CCW FACING END OPPOSITE
SHAFT EXTENSION). INTERCHANGE
5 AND 8 INTERNALLY FOR OPPOSITE
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 MODEL 17 CONNECTION

REV. LTR: G

VERSION: 02

TDR: 000001250682

FILE: \AAA\00007\108

REVISED: 12: 29: 47 04/16/2025

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

TYPE L, DV, FIX, THERMAL, TERMINAL PLATE

SH 1 of 1

CD0203