

ABB BALDOR RELIANCE III

Customer information packet

L1203M

.25HP, 1725RPM, 1PH, 60HZ, 48, 3411L, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	48
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	.250 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	2.500 A @ 230.0 V 3.000 A @ 208.0 V 5.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	55.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	Z
Type	AC
Mech. spec.	34F001
Base	
Status	INA/A
Elec. spec.	34WG5604
Layout	34LYF001
Eff. date	03-07-2017
CD Diagram	CD0008
Poles	04
Leads	7#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	2.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3411L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.13 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	Manual Thermal Overload



Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L									
CAT.NO.	L1203M								
SPEC.	34F01-5604								
HP	.25								
VOLTS	115/230								
AMP	5/2.5								
RPM	1725								
FRAME	48			HZ		60		PH 1	
SER.F.	1.35	CODE	L	DES		N	CL	B	
NEMA-NOM-EFF	55	PF	57						
RATING	40C AMB-CONT								
CC									
DE	6203	ODE	6203						
ENCL	OPEN	SN							
	SFA 5.6/2.8								

AC Induction Motor Performance Data

Record # 6792

Typical performance - not guaranteed values

Winding: 34WG5604-R001				Type: 3411L		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.25		Full Load Torque		0.75 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		5/2.5		Breakdown Torque		2.13 LB-FT	
R.P.M.		1725		Pull-up Torque		1.88 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		2.48 LB-FT	
NEMA Design Code		N	KVA Code	Starting Current		9.95 A	
Service Factor (S.F.)		1.35		No-load Current		2.2 A	
NEMA Nom. Eff.		55	Power Factor	Line-line Res. @ 25°C		8.88 Ω A Ph 7.06 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		42°C	
S.F. Amps		5.6/2.8		Temp. Rise @ S.F. Load		50°C	

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	40	49	57	63	69	67
Efficiency	27	42	51	55	58	59	59
Speed	1779	1763	1745	1725	1705	1680	1690
Line amperes	2.2	2.3	2.4	2.5	2.7	2.9	2.8

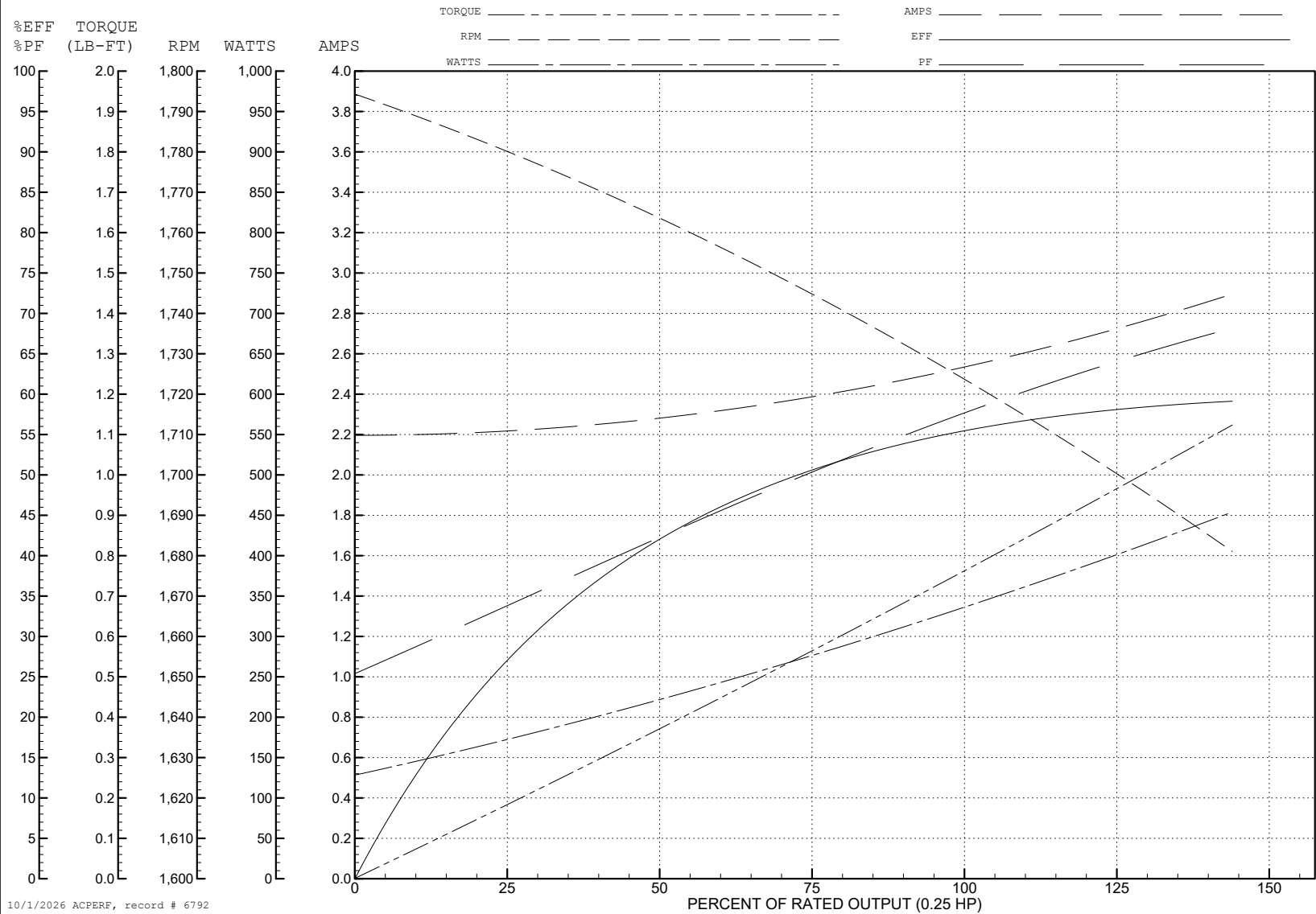
ABB Motors and Mechanical Inc.

WINDING # 34WG5604

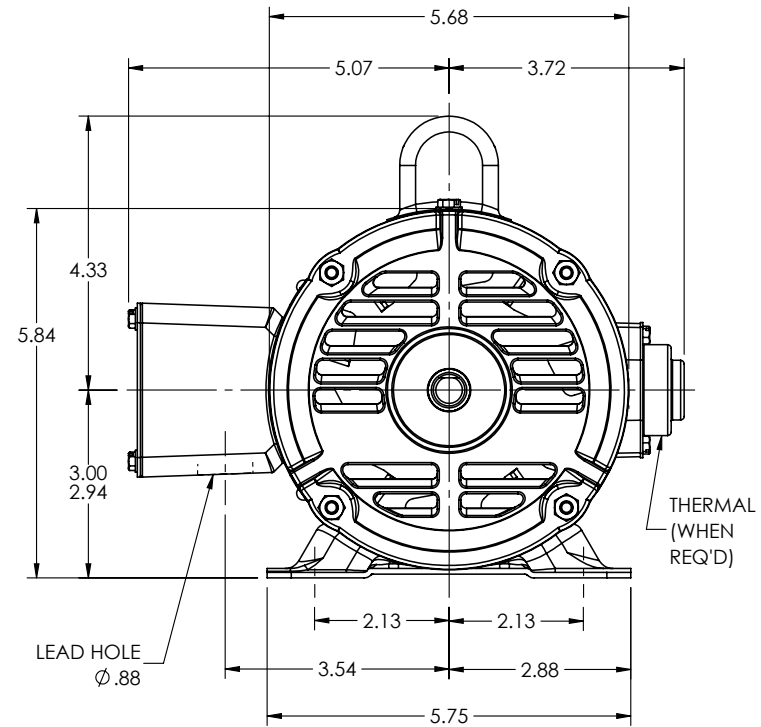
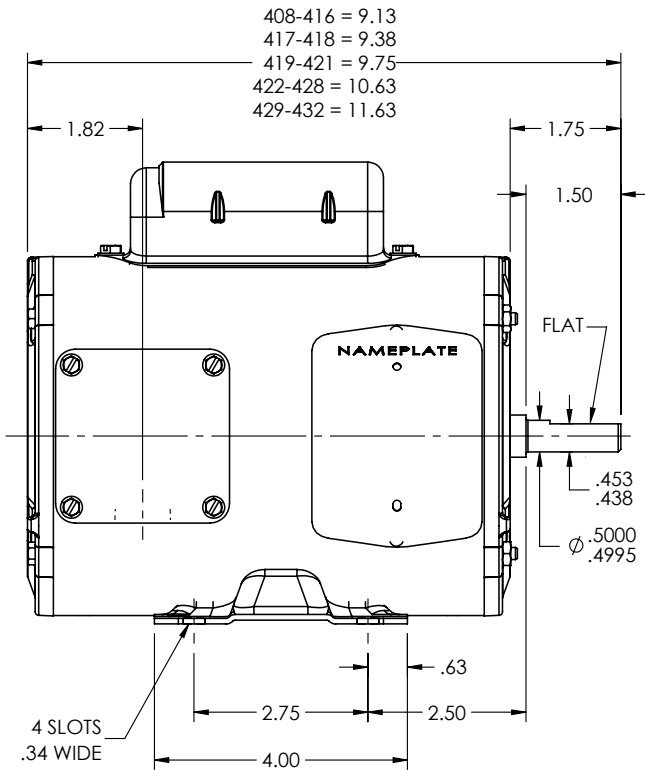
Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1725 RPM 230 V 3411L

TORQUES (LB-FT) : PO=2.13 PU=1.88 LR=2.48 LRA=9.95



34LYF001



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

REV. DESC: CLEAN UP DIMENSIONING

REV: L

VERSION: 05

REVISED: 07:20:02 04/15/2025

TDR: 000001253803

10011713

MODEL NO. 34LYF001

BY: ENJEFD0

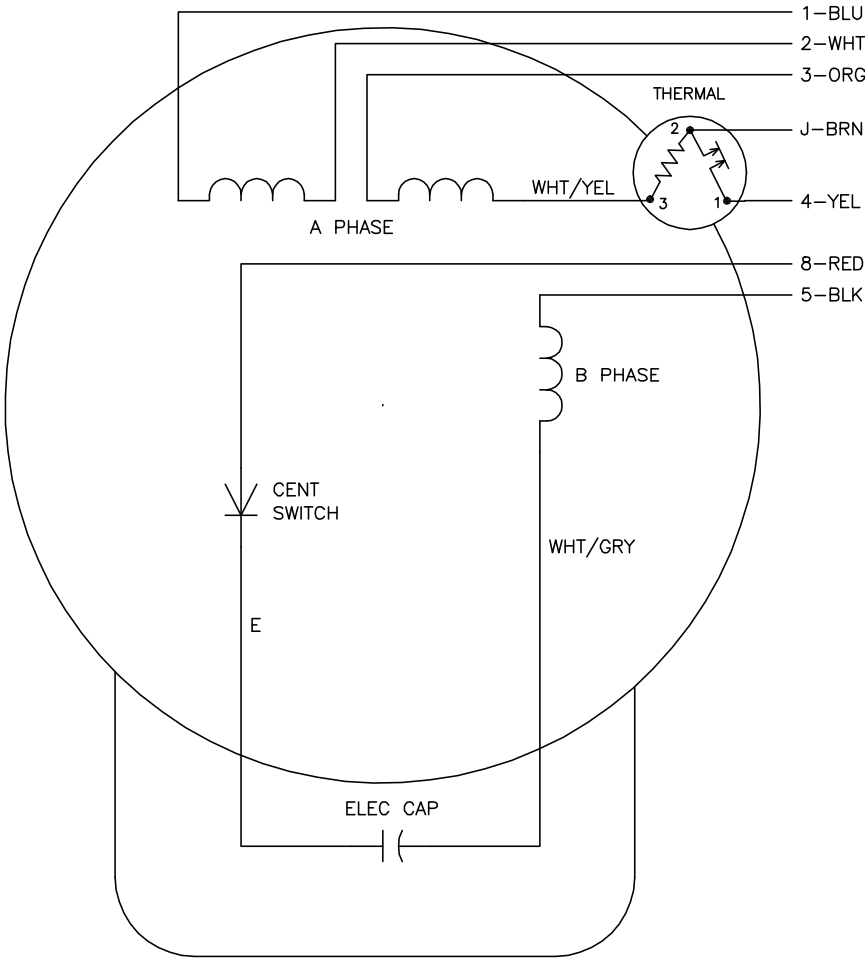
REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 48 OPEN

34LYF001

CD0008



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1	4	2,3,8	J,5
HIGH OPP	1	4	2,3,5	J,8
LOW STD	1,3,8	4	—	2,J,5
LOW OPP	1,3,5	4	—	2,J,8

- NOTES:
1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
 2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE 2-TERMINAL THERMAL DETAIL, SEE CD0008A02		
REV. LTR: F	VERSION: 01	TDR: 000000360649
800000	FILE: \AAA\00007\408	REVISED: 10:56:54 04/18/2005
	MTL: —	BY: ENJOEPO

BALDOR ELECTRIC Co.

TYPE L, DV, REV, THERMAL, 7 LEADS

CD0008