

ABB BALDOR RELIANCE III

Customer information packet

L1307M

.75HP, 1725RPM, 1PH, 60HZ, 56, 3428L, OPEN, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	OPEN
Frame	56
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	.750 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	10.200 A @ 115.0 V 5.100 A @ 230.0 V 6.000 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
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	AE
Type	AC
Mech. spec.	34F074
Base	
Status	INA/A
Elec. spec.	34WGW197
Layout	34LYF074
Eff. date	03-08-2017
CD Diagram	CD0269
Poles	04
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	5.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.51 IN
Power Factor	68
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	1.25
Shaft Diameter	0.625 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.	L1307M								
SPEC.	34F74W197								
HP	.75								
VOLTS	115/230								
AMP	10.2/5.1								
RPM	1725								
FRAME	56			HZ	60		PH	1	
SER.F.	1.25//		CODE	K	DES	N	CL	B	
NEMA-NOM-EFF	68		PF	68					
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	OPEN	SN							
	SFA 11.4/5.7								

AC Induction Motor Performance Data

Record # 6916

Typical performance - not guaranteed values

Winding: 34WGW197-R001			Type: 3428L		Enclosure: OPEN	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.75		Full Load Torque		2.25 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		10.2/5.1		Breakdown Torque		5.5 LB-FT
R.P.M.		1725		Pull-up Torque		4.5 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		9.5 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		31 A
Service Factor (S.F.)		1.25		No-load Current		3.9 A
NEMA Nom. Eff.		68	Power Factor	Line-line Res. @ 25°C		3.1 Ω A Ph 1.64 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C
S.F. Amps		11.4/5.7		Temp. Rise @ S.F. Load		90°C

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	49	63	70	76	80	76
Efficiency	45.4	59.1	62.7	66.7	66.8	64.4	66.8
Speed	1783	1770	1754	1737	1717	1692	1717
Line amperes	4.05	4.25	4.8	5.3	6.1	7	6.1

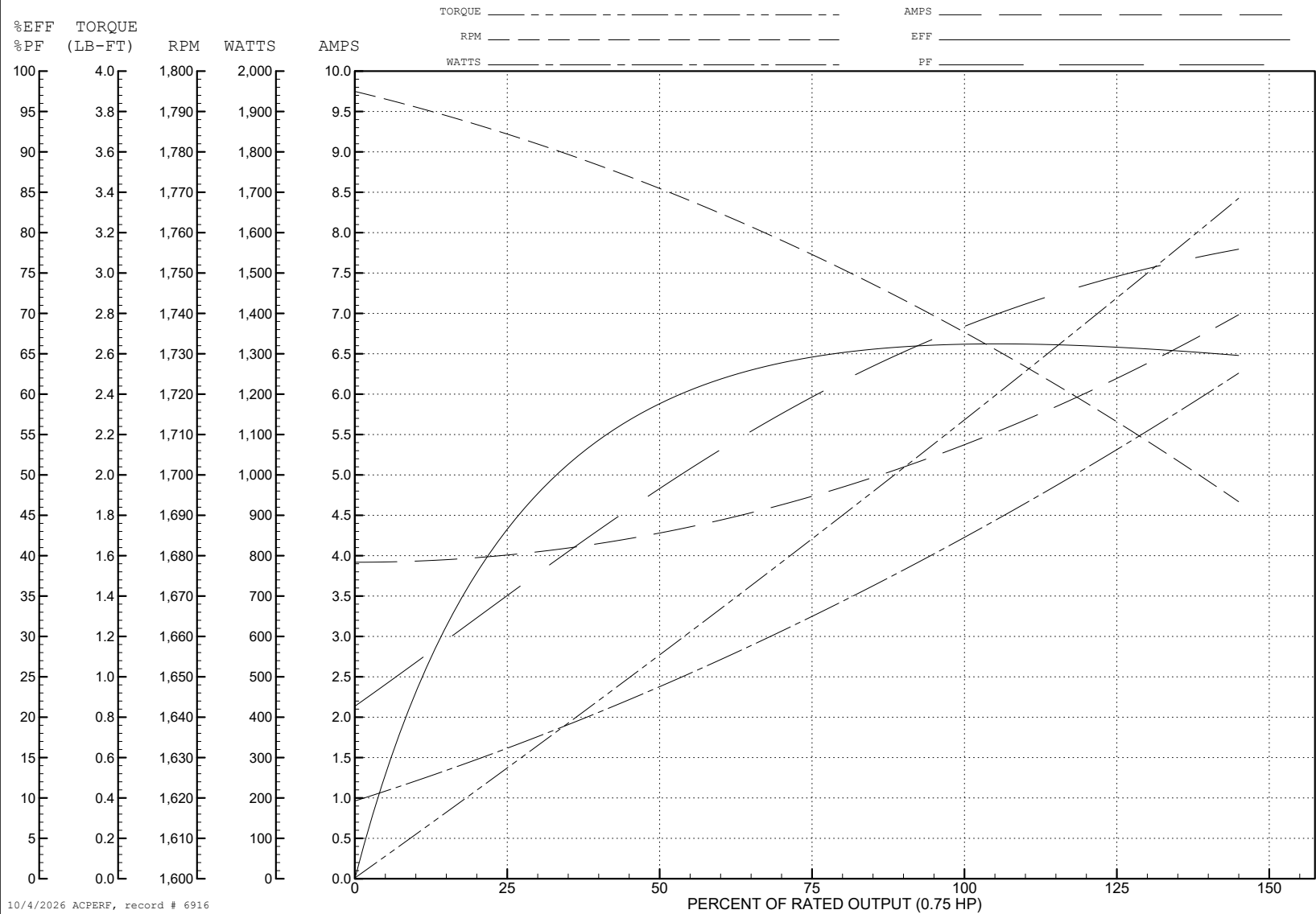
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WINDING # 34GW197

Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428L

TORQUES (LB-FT) : PO=5.5 PU=4.5 LR=9.5 LRA=31



AC Induction Motor Performance Data

Record # 55550

Typical performance - not guaranteed values

Winding: 34WGW197-R001				Type: 3428L		Enclosure: OPEN	
Nameplate Data				115 V, 60 Hz: Low Voltage Connection			
Rated Output (HP)		.75		Full Load Torque		2.25 LB-FT	
Volts		115/230		Start Configuration		direct on line	
Full Load Amps		10.2/5.1		Breakdown Torque		5.5 LB-FT	
R.P.M.		1725		Pull-up Torque		4.5 LB-FT	
Hz	60	Phase	1	Locked-rotor Torque		9.5 LB-FT	
NEMA Design Code		N	KVA Code	Starting Current		62 A	
Service Factor (S.F.)		1.25		No-load Current		7.8 A	
NEMA Nom. Eff.		68	Power Factor	Line-line Res. @ 25°C		0.732 Ω A Ph 1.7 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		74°C	
S.F. Amps		11.4/5.7		Temp. Rise @ S.F. Load		90°C	
				Locked-rotor Power Factor		94.7	
				Rotor inertia		0.0665 LB-FT2	

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	49	61	68	73	78	73
Efficiency	45.4	59.3	62.8	66.7	66.8	64.5	66.8
Speed	1783	1770	1754	1737	1717	1692	1717
Line amperes	8.1	8.5	9.6	10.6	12.2	14	12.2

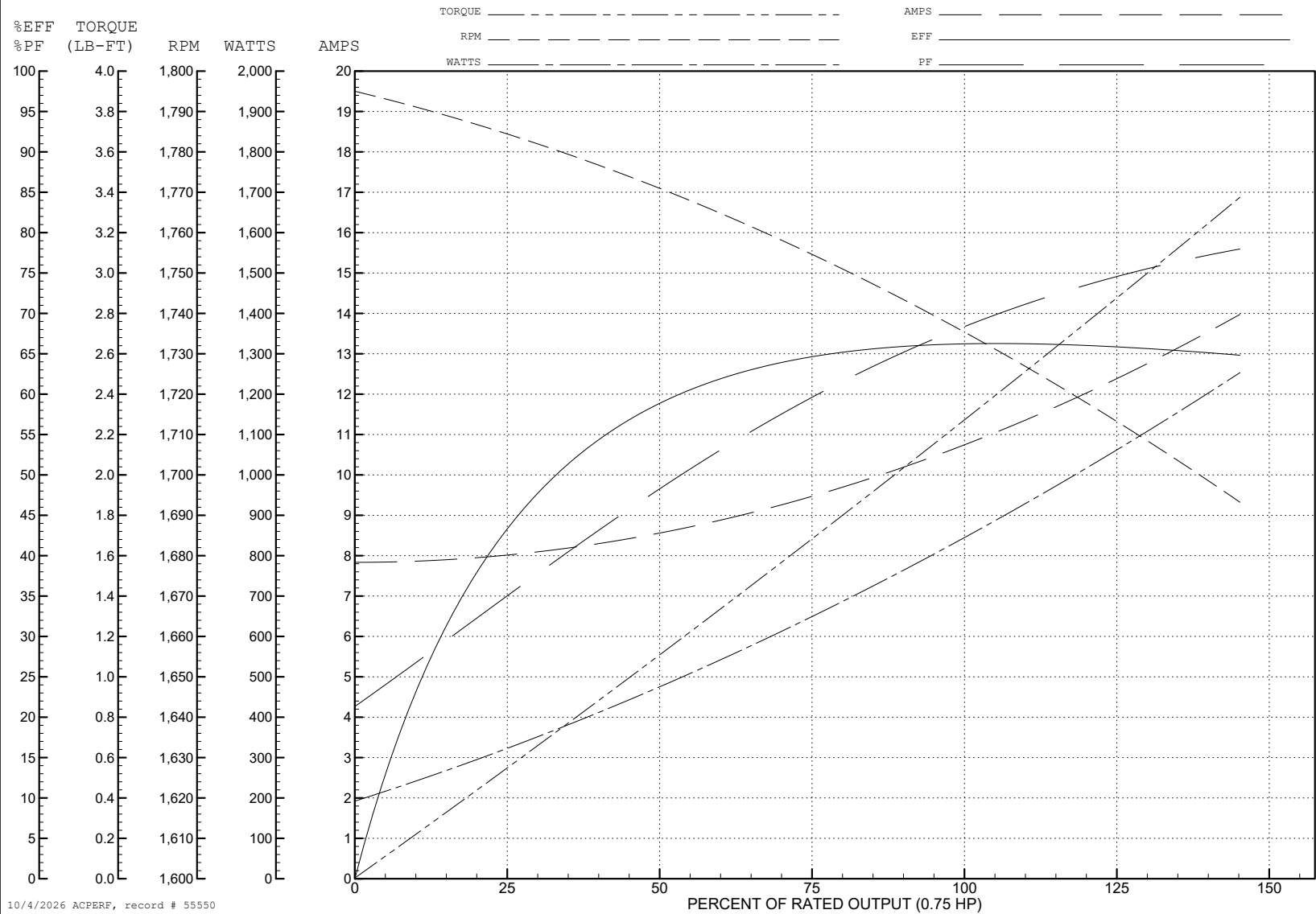
ABB Motors and Mechanical Inc.

WINDING # 34GW197

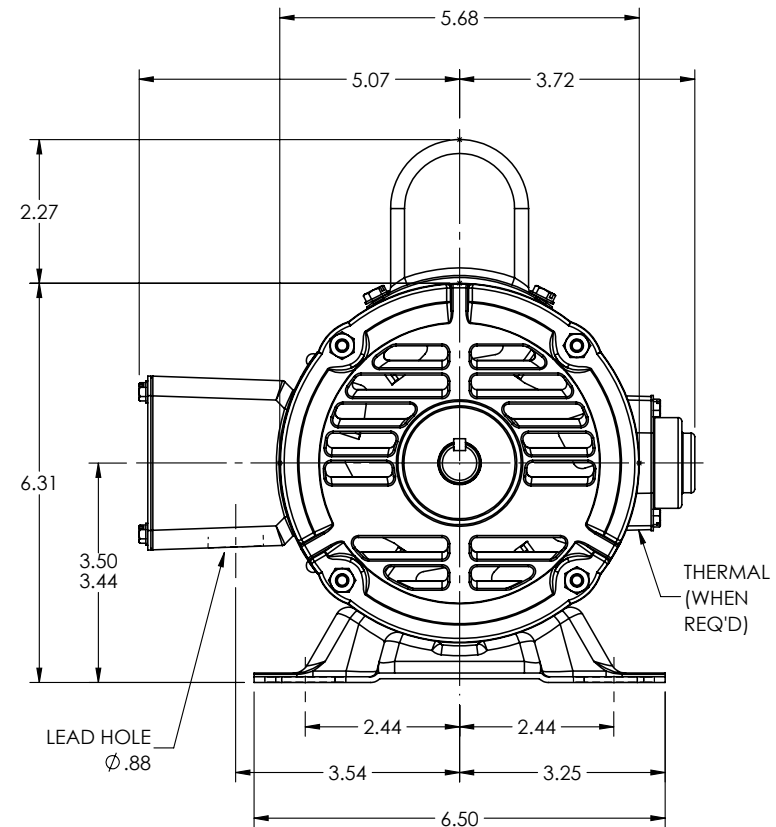
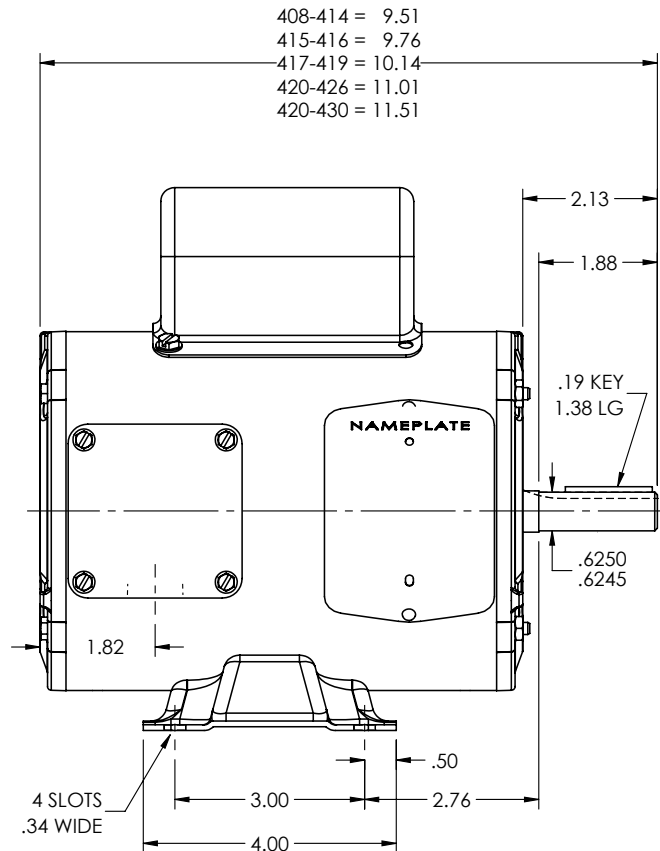
Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1725 RPM 115 V 3428L

TORQUES (LB-FT) : PO=5.5 PU=4.5 LR=9.5 LRA=62



34LYF074



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

REV. DESC: CLEAN UP DIMENSIONING

REV: J

VERSION: 06

REVISED: 08:16:49 10/02/2025

TDR: 000001264465

34LYF074

MODEL NO. 34LYF074

BY: ENJEFD0

REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 56 OPEN W/LG CAPAC & 3 PH ER

34LYF074

CD0269

