

ABB BALDOR RELIANCE III

Customer information packet

CL3405

.33HP, 3450RPM, 1PH, 60HZ, 56C, 3413L, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 208.0 V @ 60 HZ 115.0 V @ 60 HZ
Agency Approvals	C UR US
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	6.000 A @ 115.0 V 3.700 A @ 208.0 V 3.200 A @ 208.0 V 3.000 A @ 230.0 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

Part Detail

Revision	M
Type	AC
Mech. spec.	34C062
Base	
Status	PRD/A
Elec. spec.	34WG0183
Layout	34LYC062
Eff. date	12-30-2024
CD Diagram	CD0001
Poles	02
Leads	6#18
Proprietary	False
Created date	12-19-2007

Heater Indicator	No Heater
High Voltage Full Load Amps	3.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	3413L
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.35
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	3450 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	None

Winding Thermal 2

None

Nameplate

NP1256L											
CAT.NO.	CL3405										
SPEC.	34C062-0183										
HP	.33										
VOLTS	115/208-230										
AMP	6/3.2-3										
RPM	3450										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.35		CODE	K	DES	N		CLASS	B		
NEMA-NOM-EFF	55		PF	68							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 7/3.7-3.5										

AC Induction Motor Performance Data

Record # 50672

Typical performance - not guaranteed values

Winding: 34WG0183-R001			Type: 3413L		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.33	Full Load Torque		0.5 LB-FT		
Volts		115/208-230	Start Configuration		direct on line		
Full Load Amps		6/3.2-3	Breakdown Torque		1.3 LB-FT		
R.P.M.		3450	Pull-up Torque		1.1 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		1.6 LB-FT	
NEMA Design Code		N	KVA Code	K	Starting Current		14 A
Service Factor (S.F.)		1.35		No-load Current		2.4 A	
NEMA Nom. Eff.		55	Power Factor	68	Line-line Res. @ 25°C		7.12 Ω A Ph 5.47 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load			
S.F. Amps		7/3.7-3.5		Temp. Rise @ S.F. Load			

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	47	56	66	70	75	72
Efficiency	36.3	46.9	53.8	58.8	59.8	59.7	60.2
Speed	3556	3535	3508	3465	3439	3393	3429
Line amperes	2.4	2.5	2.6	2.9	3.2	3.5	3.4

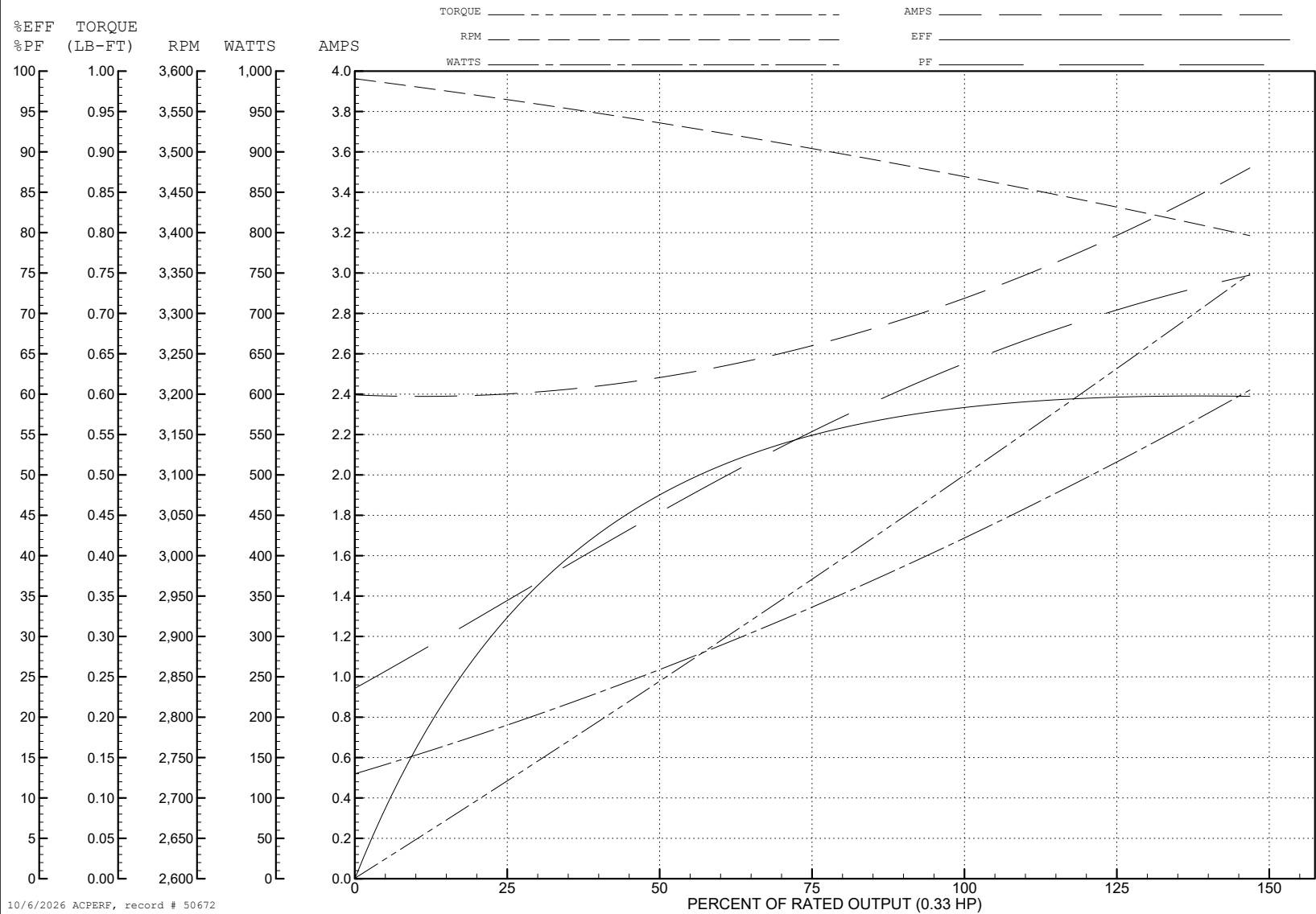
ABB Motors and Mechanical Inc.

WINDING # 34WG0183

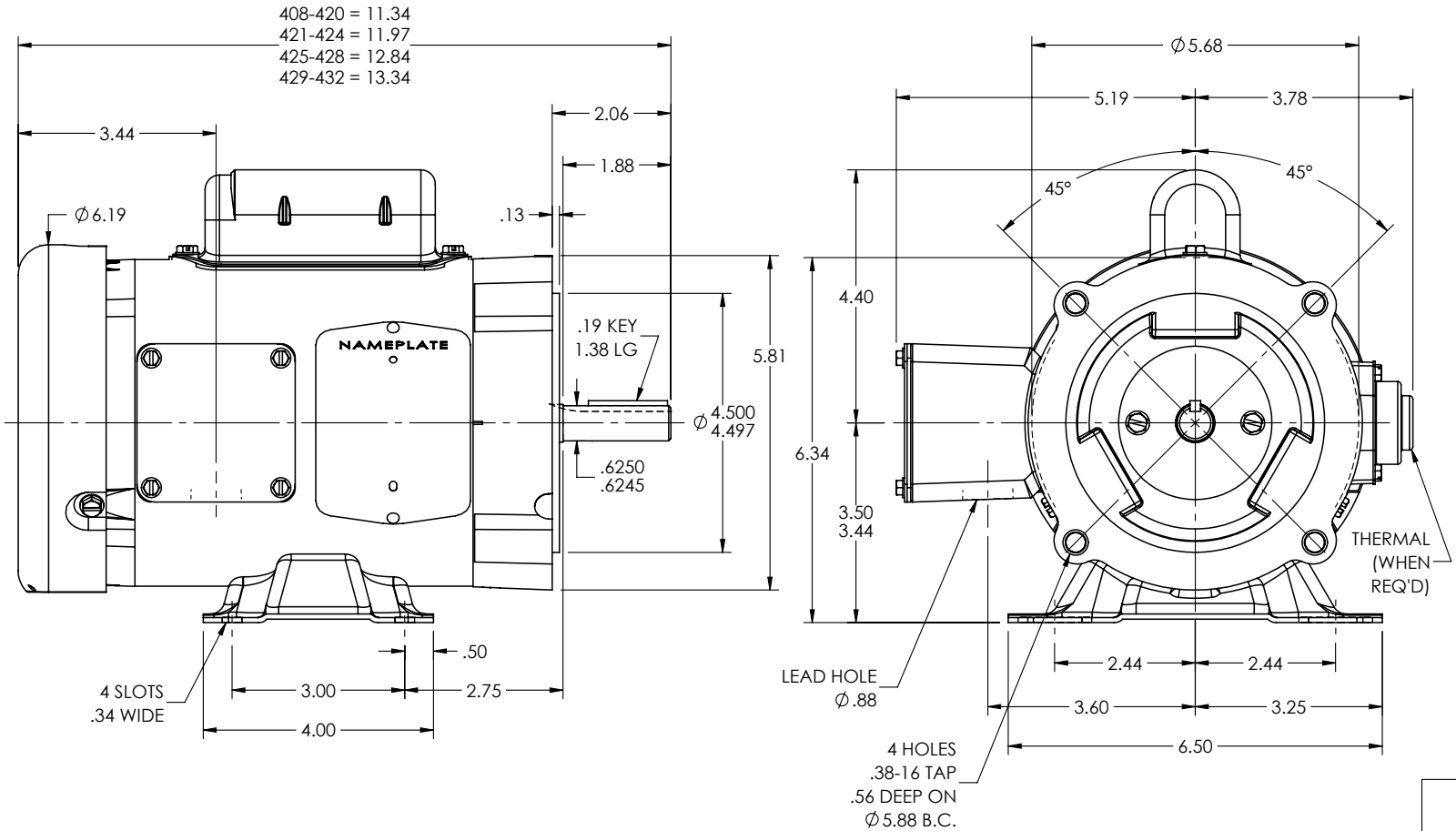
Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 3450 RPM 230 V 3413L

TORQUES (LB-FT): PO=1.3 PU=1.1 LR=1.6 LRA=14



34LYC062



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

REV. DESC: CLEAN UP DIMENSIONING

REV: N

VERSION: 05

REVISED: 03:09:10 10/27/2025

TDR: 000001265773

34LYC062

MODEL NO. 34LYC062

BY: ENJEFD0

REF: -

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 56C TEFC

34LYC062

CD0001

