Customer information packet

M3537

.5HP, 3420RPM, 3PH, 60HZ, 56, 3410M, TEFC, F1, N
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/15/2026 2:21:57 AM

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	1.600 A @ 230.0 V
	1.540 A @ 208.0 V
	.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	72.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	B

Part Detail

Revision	D
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WGR708
Layout	34LYA061
Eff. date	12-30-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	02-08-2021

Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3410M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.35 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3420 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.	M3537							
SPEC.	34A061R708							
HP	.5							
VOLTS	230/460							
AMP	1.6/.8							
RPM	3420							
FRAME	56	**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	J	**DES**	B	**CLASS**	B	
NEMA-NOM-EFF	72	**PF**	80					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEFC	**SN**						
	SFA 1.9/0.95							

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 85597
Preliminary Data Sheet

Winding: 34WGR708-R001	**Type:** 3410M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	0.77 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/0.8	**Breakdown Torque**	2.65 LB-FT
R.P.M.			3420	**Pull-up Torque**	1.68 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	1.89 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	4.72 A
Service Factor (S.F.)			1.25	**No-load Current**	0.59 A
NEMA Nom. Eff.	72	**Power Factor**	80	**Line-line Res. @ 25ºC**	50.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	53°C
S.F. Amps			1.9/.0.95	**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	76.8
				Rotor inertia	0.0093 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	57	71	80	87	91	87
Efficiency	52.3	65.9	71.6	72.6	73.4	71.8	73.4
Speed	3550	3511	3469	3420	3365	3300	3365
Line amperes	0.61	0.65	0.72	0.8	0.93	1.08	0.93

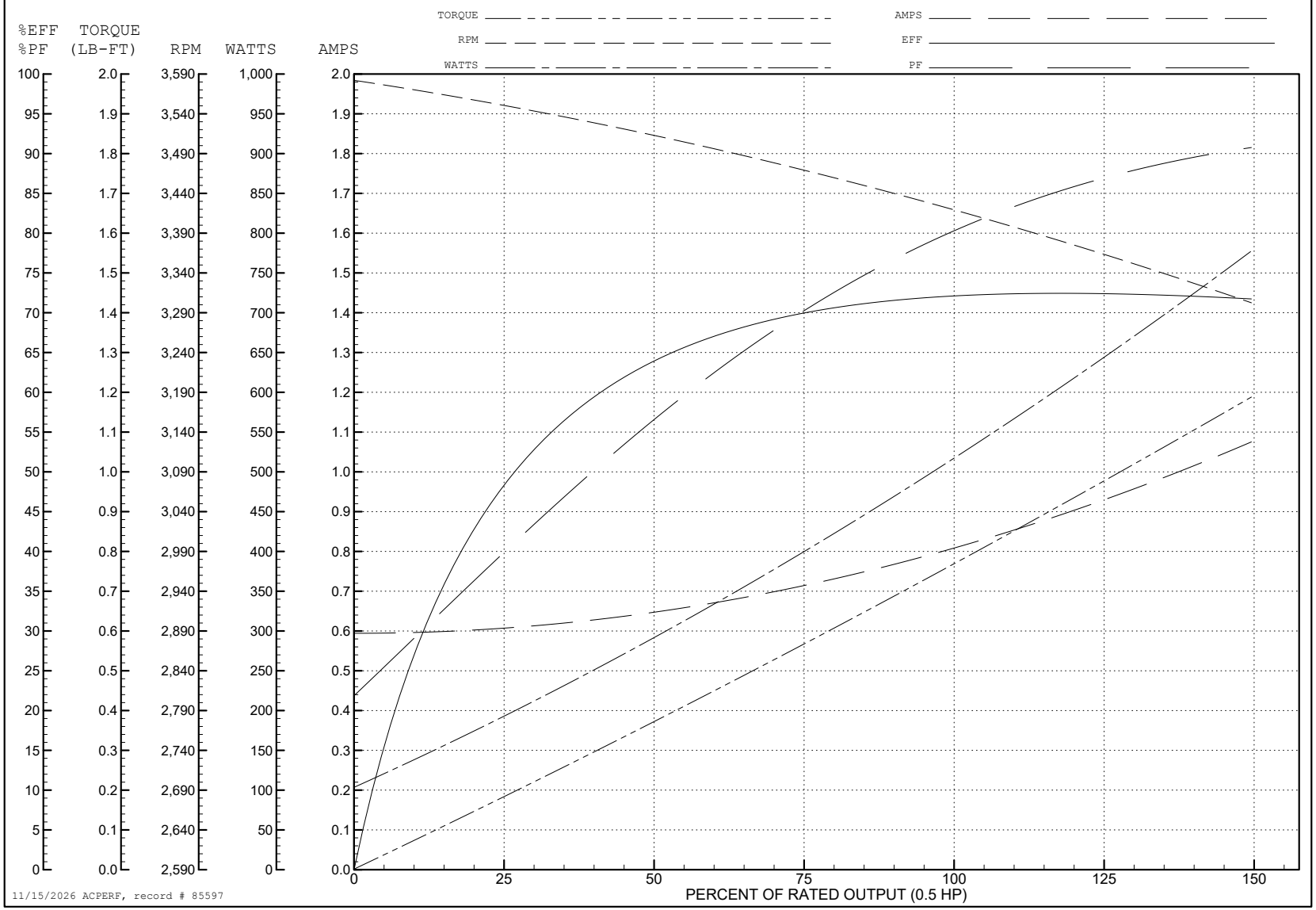
ABB Motors and Mechanical Inc.

WINDING # 34WGR708

0.5 HP 3 PH 60 HZ 3420 RPM 460 V 3410M

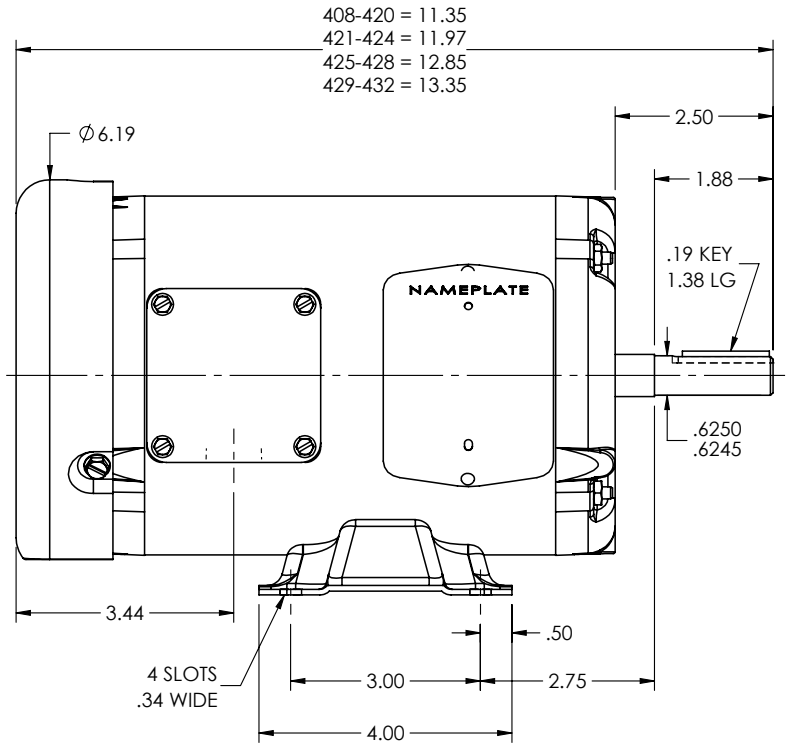
TORQUES(LB-FT): PO=2.65 PU=1.68 LR=1.89 LRA=4.72

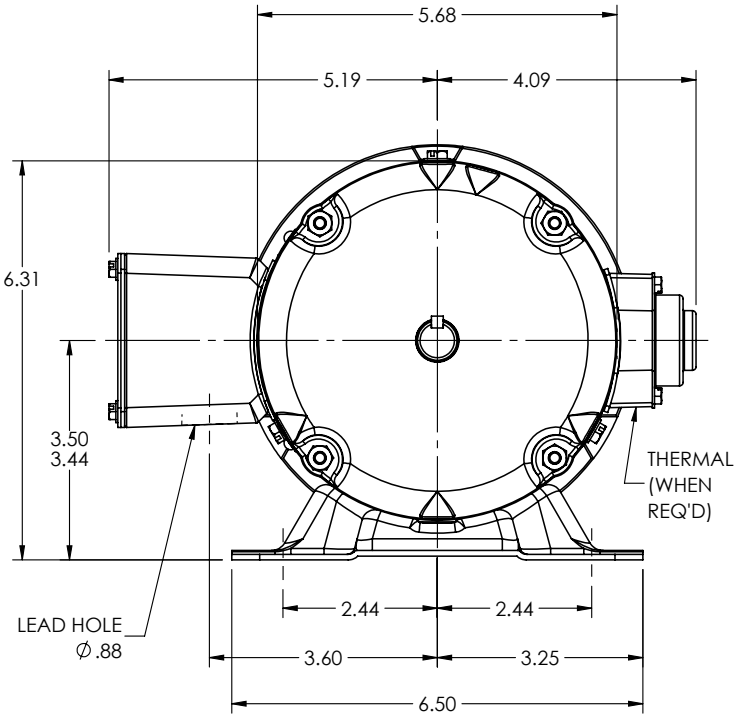
Typical performance - not guaranteed values.



11/15/2026 ACPERF, record # 85597

34LYA061





34LYA061

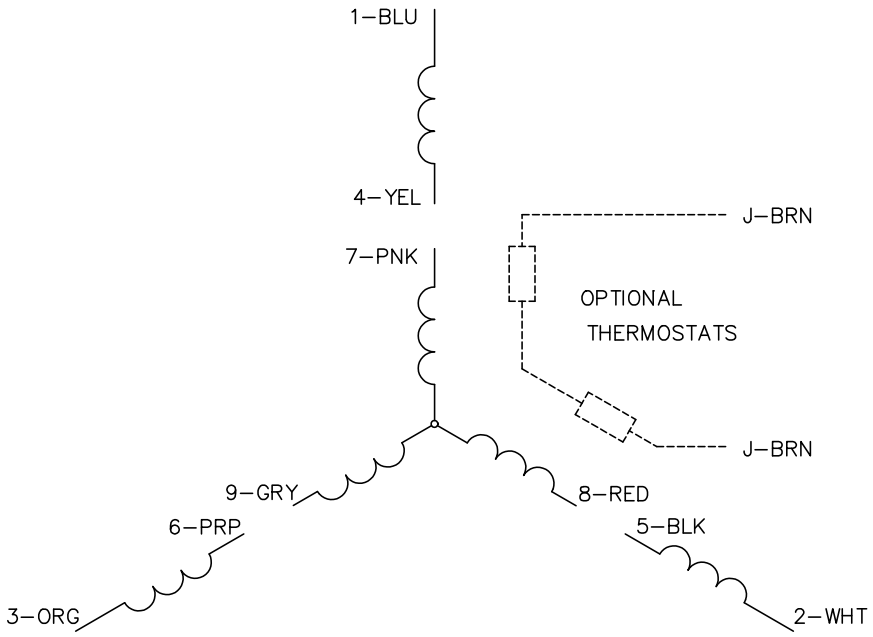
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

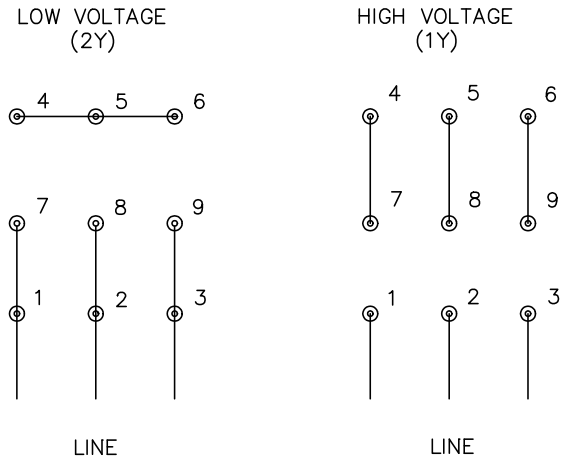
REV. DESC: CLEAN UP DIMENSIONING			
REV: N	VERSION: 06	REVISED: 02:32:44 11/26/2024	TDR: 000001245356
MODEL NO. 34LYA061			REF: -
BY: ENJEFD0			

BALDOR - RELIANCE®

STD HORZ 34M NEMA 56 TEFC

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS