ABB BALDOR RELIANCE

Customer information packet

VM3537

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

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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	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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.800 A @ 460.0 V
	1.540 A @ 208.0 V
	1.600 A @ 230.0 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	E
Type	AC
Mech. spec.	34A063
Base	
Status	PRD/A
Elec. spec.	34WGR708
Layout	34LYA063
Eff. date	02-10-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-20-2020

Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	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	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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.	VM3537							
SPEC.	34A063R708							
HP	.5							
VOLTS	230/460							
AMP	1.6/.8							
RPM	3420							
FRAME	56C	**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 1.9/0.95A							

Parts List

Part number	Description	Quantity
SA388174	SA 34A063R708	1.000 ea
RA378523	RA 34A063R708	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A02	1.000 ea

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

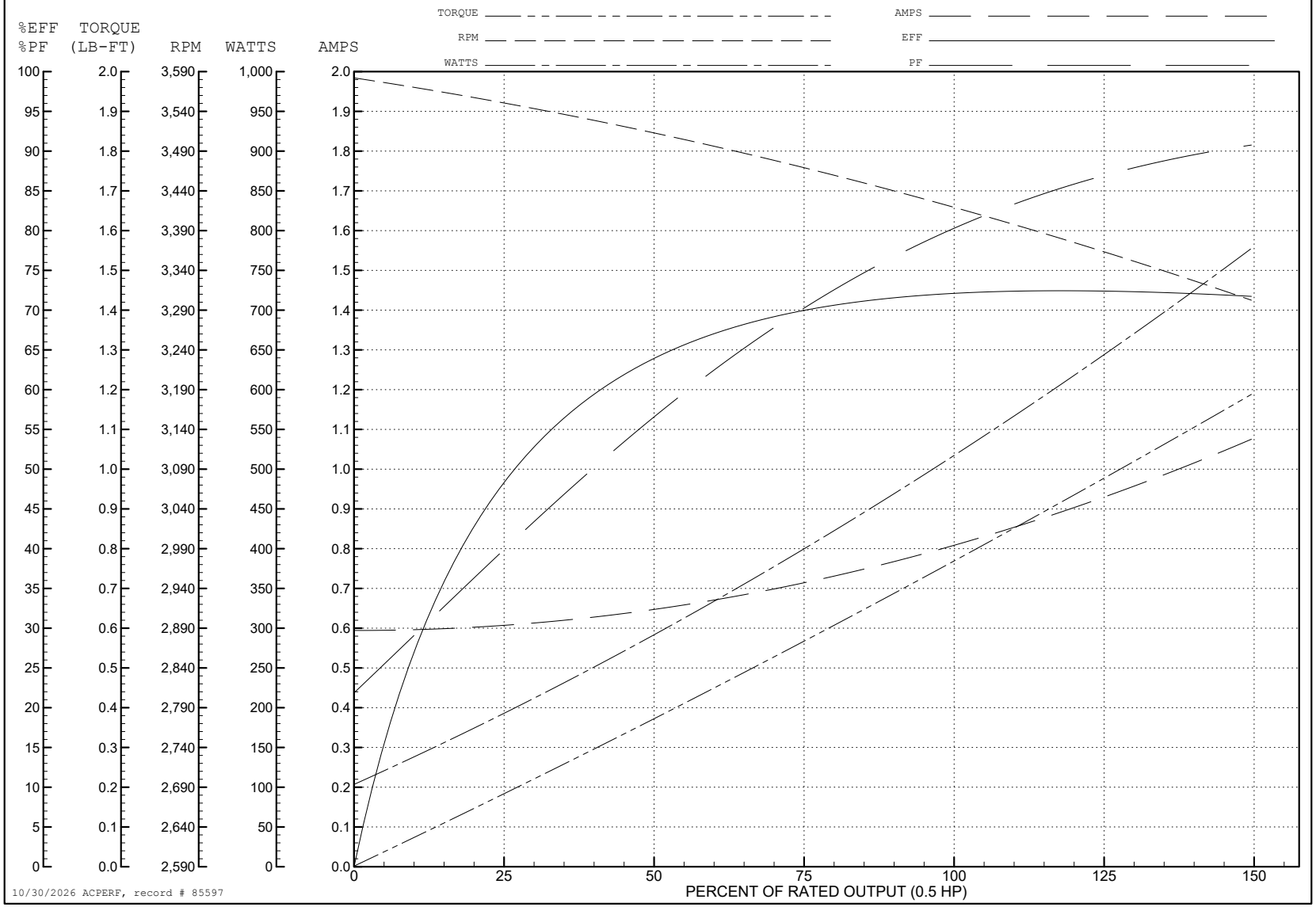
ABB Motors and Mechanical Inc.

WINDING # 34WGR708

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

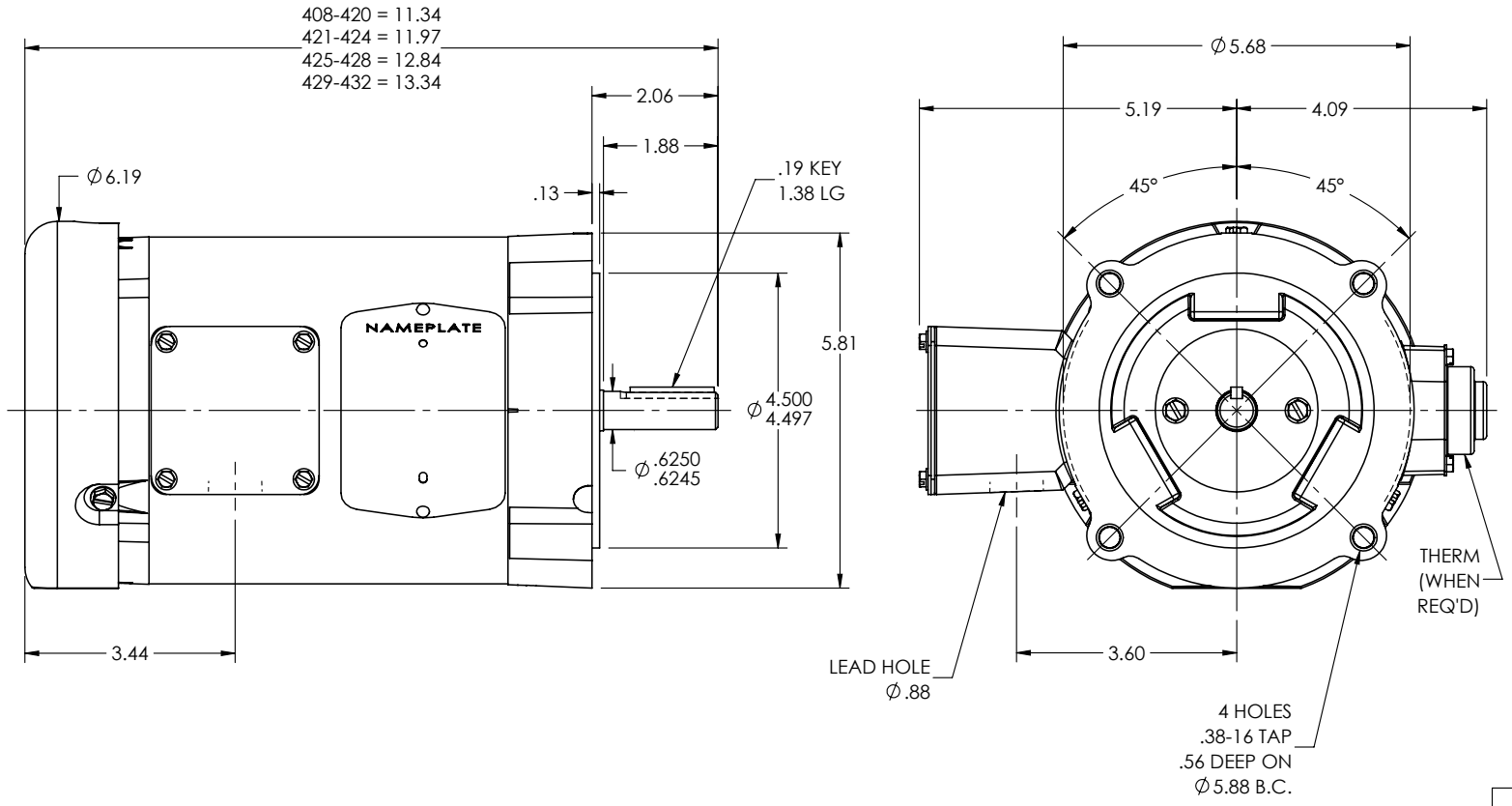
Typical performance - not guaranteed values.

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



10/30/2026 ACPERF, record # 85597

34LYA063



34LYA063

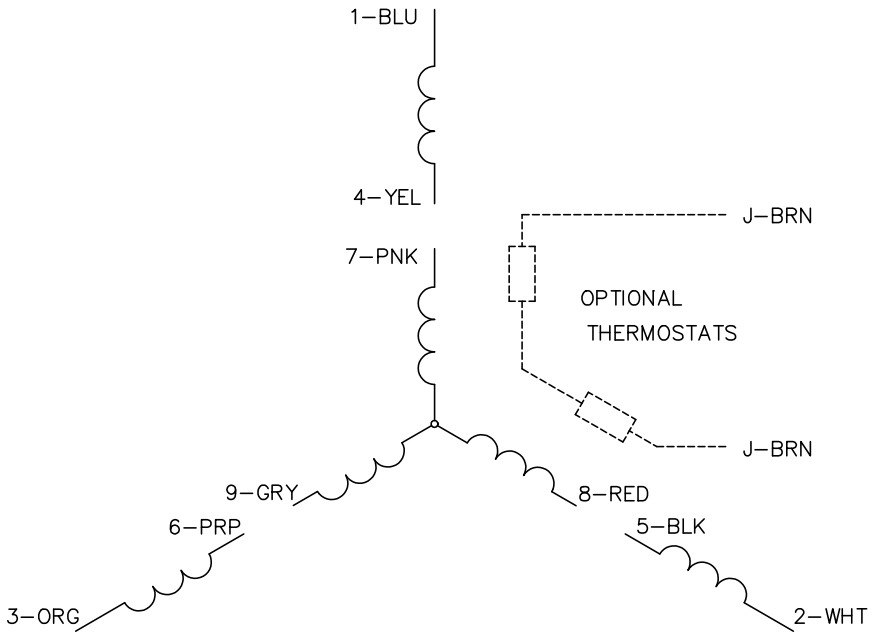
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

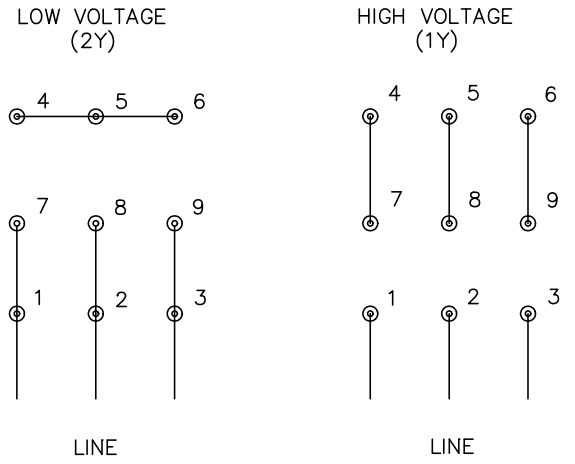
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REV: P	VERSION: 05	REVISED: 08:51:08 10/31/2024	TDR: 000001243684
34LYA063	MODEL NO. 34LYA063		REF: -
	BY: ENJEFD0		

BALDOR - RELIANCE®

STD VERT 34M NEMA 56C 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