ABB BALDOR RELIANCE

Customer information packet

M3538-5

.5HP, 1725RPM, 3PH, 60HZ, 56, 3416M, TEFC, F1
Class - None
Division - Not Applicable

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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	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	.800 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L

Part Detail

Revision	Z
Type	AC
Mech. spec.	34A061
Base	
Status	PRD/A
Elec. spec.	34WG0873
Layout	34LYA061
Eff. date	12-30-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	63
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 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	None
Winding Thermal 2	None

Nameplate

NP1256L											
CAT.NO.	M3538-5										
SPEC.	34A61-873										
HP	.5										
VOLTS	575										
AMP	.8										
RPM	1725										
FRAME	56		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	L	**DES**	B	**CLASS**		B			
NEMA-NOM-EFF	74	**PF**	63								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	TEFC	**SN**									
	SFA .9										

Accessories

Part number	Description	Multiplier
34-171	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 6604
Typical performance - not guaranteed values

Winding: 34WG0873-R001	**Type:** 3416M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			.5	**Full Load Torque**	1.5 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			.8	**Breakdown Torque**	7 LB-FT
R.P.M.			1725	**Pull-up Torque**	4.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.3 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	5.2 A
Service Factor (S.F.)			1.25	**No-load Current**	0.64 A
NEMA Nom. Eff.	74	**Power Factor**	63	**Line-line Res. @ 25ºC**	53 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps			.9	**Temp. Rise @ S.F. Load**	78°C

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	43	55	63	69	75	69
Efficiency	53.2	66.4	72.5	74.6	75.3	75.1	75.3
Speed	1782	1769	1754	1739	1724	1706	1724
Line amperes	0.64	0.68	0.74	0.82	0.92	1	0.92

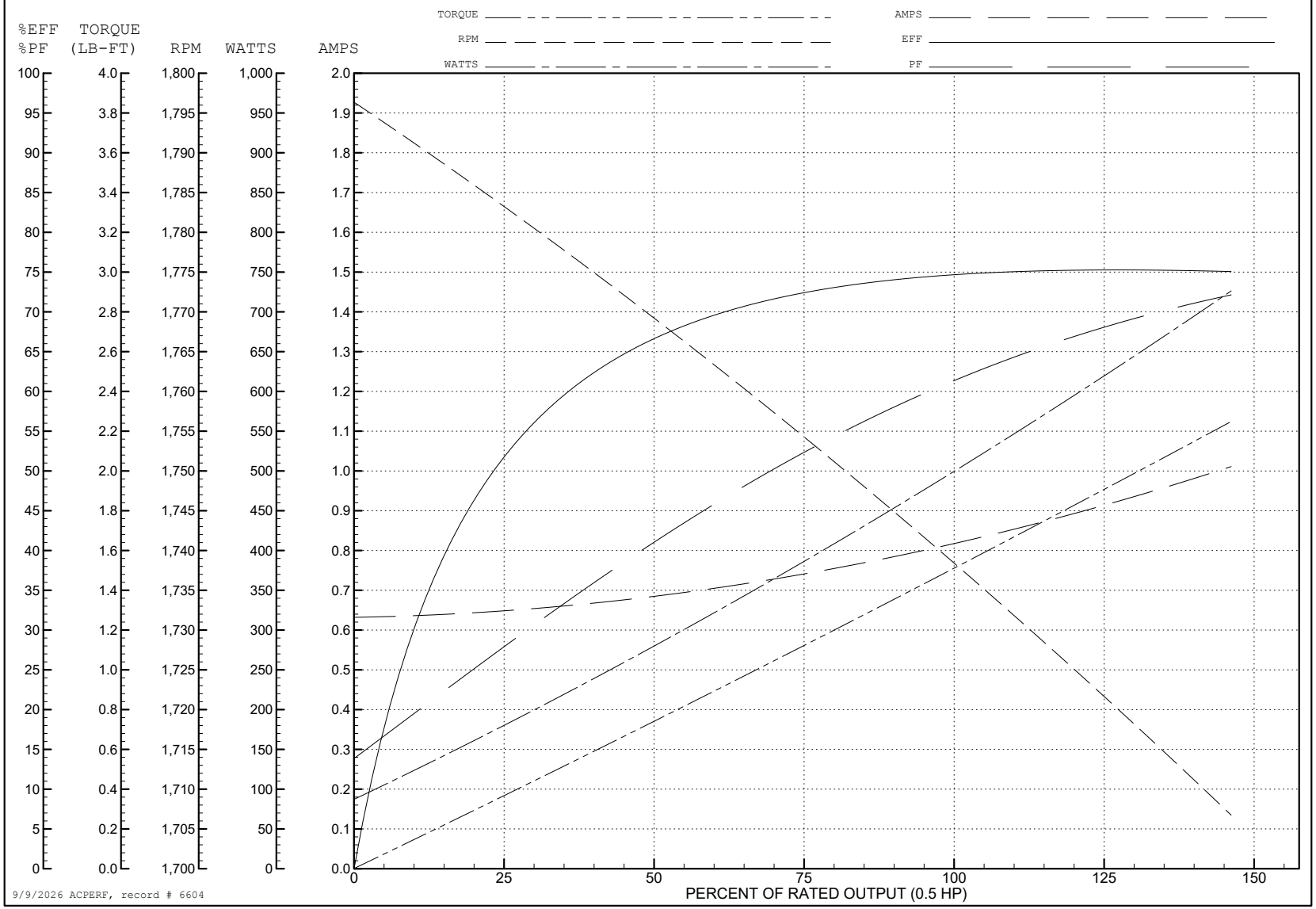
ABB Motors and Mechanical Inc.

WINDING # 34WG0873

0.5 HP 3 PH 60 HZ 1725 RPM 575 V 3416M

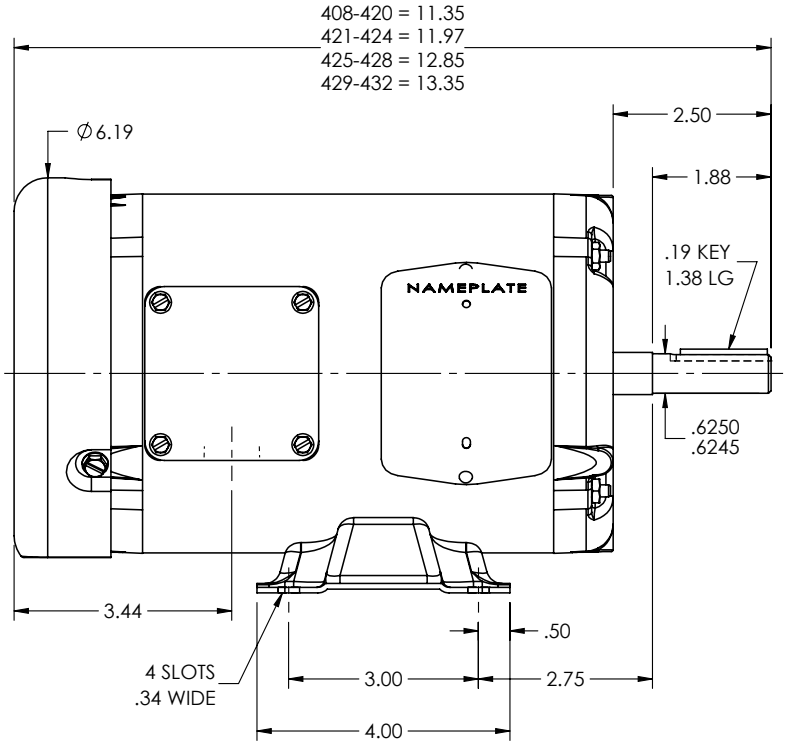
Typical performance - not guaranteed values.

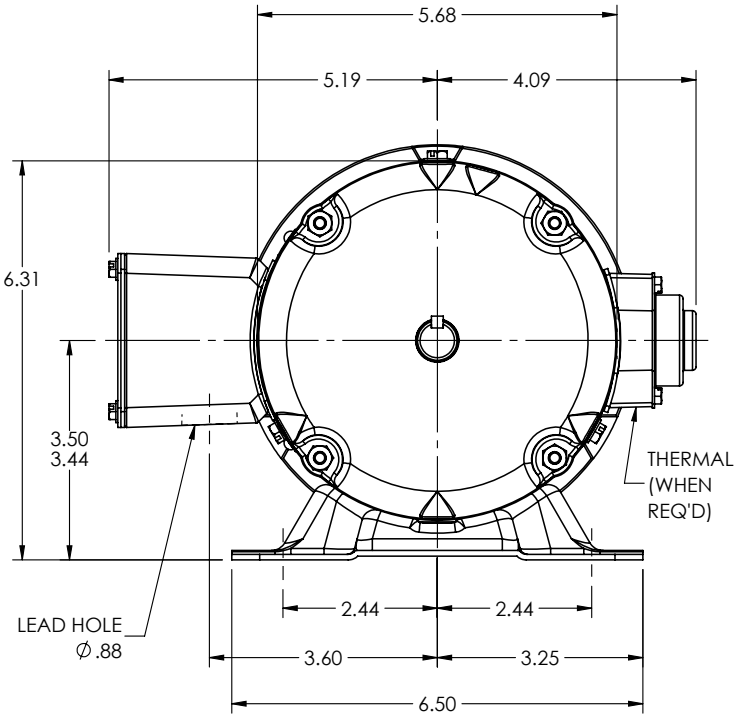
TORQUES(LB-FT): PO=7 PU=4.5 LR=5.3 LRA=5.2



9/9/2026 ACPERF, record # 6604

34LYA061





34LYA061

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

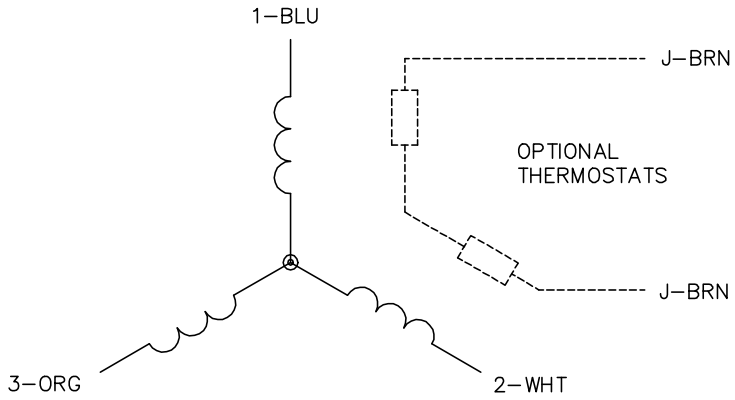
REV. DESC: CLEAN UP DIMENSIONING			
REV: N	VERSION: 06	REVISED: 02:32:44 11/26/2024	TDR: 000001245356
MODEL NO. 34LYA061			REF: -
BY: ENJEFD0			

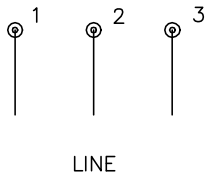
BALDOR - RELIANCE®

STD HORZ 34M NEMA 56 TEFC

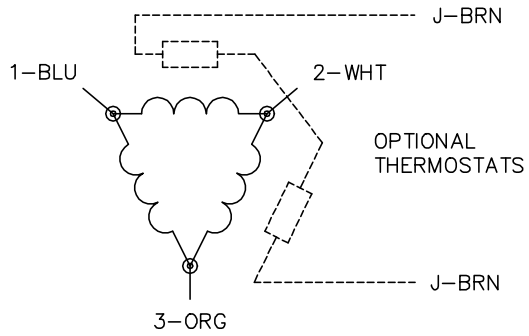
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1