ABB BALDOR RELIANCE

Customer information packet

AFM3529

1HP, 3450RPM, 3PH, 60HZ, 56Z, 3416M, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56Z
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	1.000 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	CSA
	UR
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	1.800 A @ 460.0 V
	3.600 A @ 230.0 V
	4.100 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AQ
Type	AC
Mech. spec.	34K062
Base	
Status	PRD/A
Elec. spec.	34WG0282
Layout	34LYK062
Eff. date	01-02-2025
CD Diagram	CD0005
Poles	02
Leads	9#18 14"LG +/-.5" Y
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	1.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Lead Hole
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3416M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	10.97 IN
Power Factor	71
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
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	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

Nameplate

NP1279L											
CAT.NO.	AFM3529										
SPEC.	34K62-282										
HP	1										
VOLTS	230/460										
AMP	3.6/1.8										
RPM	3450										
FRAME	56Z	**HZ**	60		**PH**	3					
SER.F.	1.25	**CODE**	H	**DES**	B		**CL**	B			
NEMA-NOM-EFF	75.5	**PF**	71								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEAO	**SN**									
	SFA 4/2										

AC Induction Motor Performance Data
Record # 6568
Typical performance - not guaranteed values

Winding: 34WG0282-R001	**Type:** 3416M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.6/1.8	**Breakdown Torque**	6.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	5.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.5 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	11 A
Service Factor (S.F.)			1.25	**No-load Current**	1.1 A
NEMA Nom. Eff.	75.5	**Power Factor**	71	**Line-line Res. @ 25ºC**	16.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	71°C
S.F. Amps			4/2	**Temp. Rise @ S.F. Load**	85°C

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	53	68	76	77	76	77
Efficiency	61.2	72.1	76.8	77.7	77.2	76.2	77.2
Speed	3558	3524	3476	3434	3390	3349	3390
Line amperes	1.17	1.25	1.45	1.65	1.9	2.15	1.9

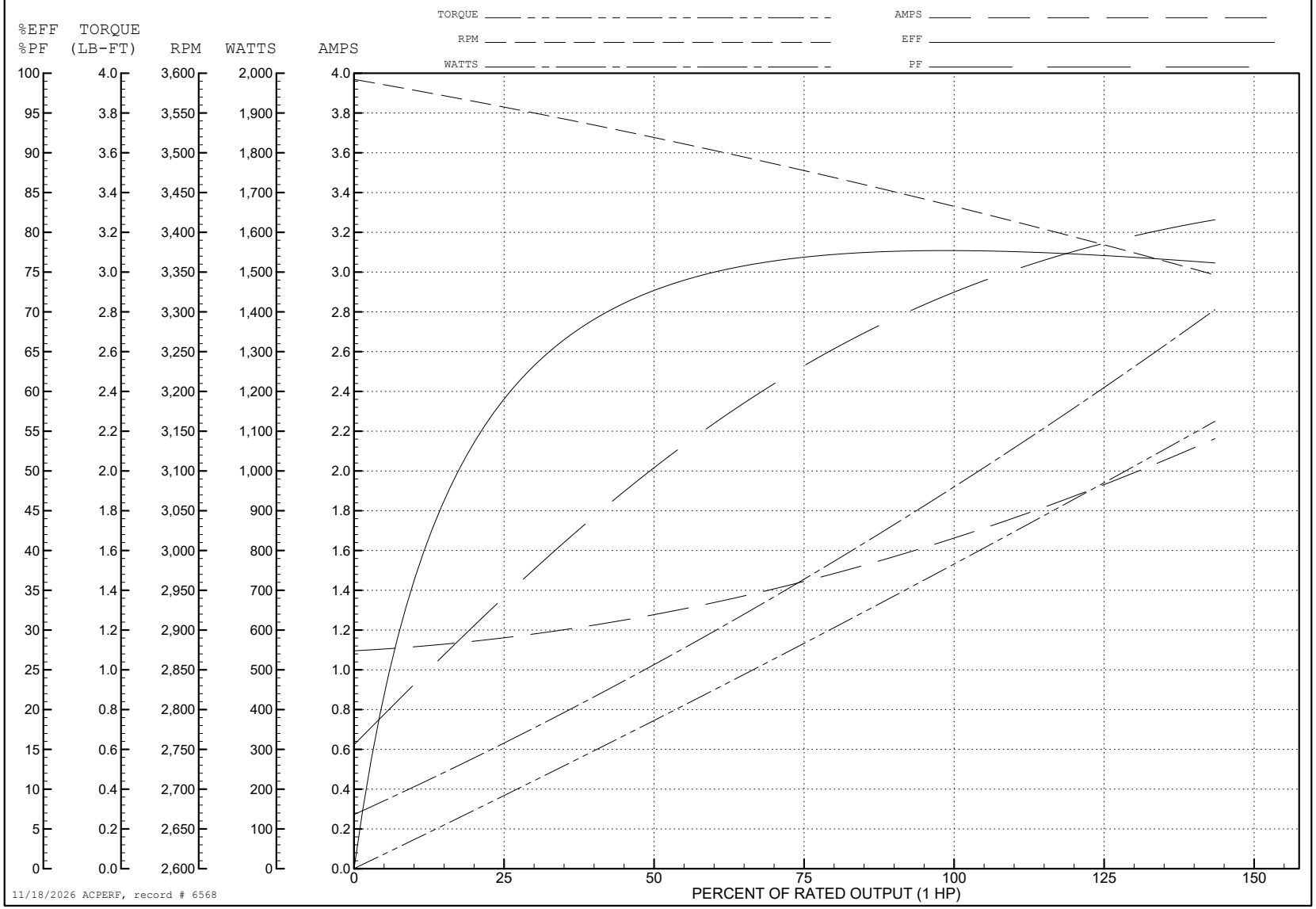
ABB Motors and Mechanical Inc.

WINDING # 34WG0282

1 HP 3 PH 60 HZ 3450 RPM 460 V 3416M

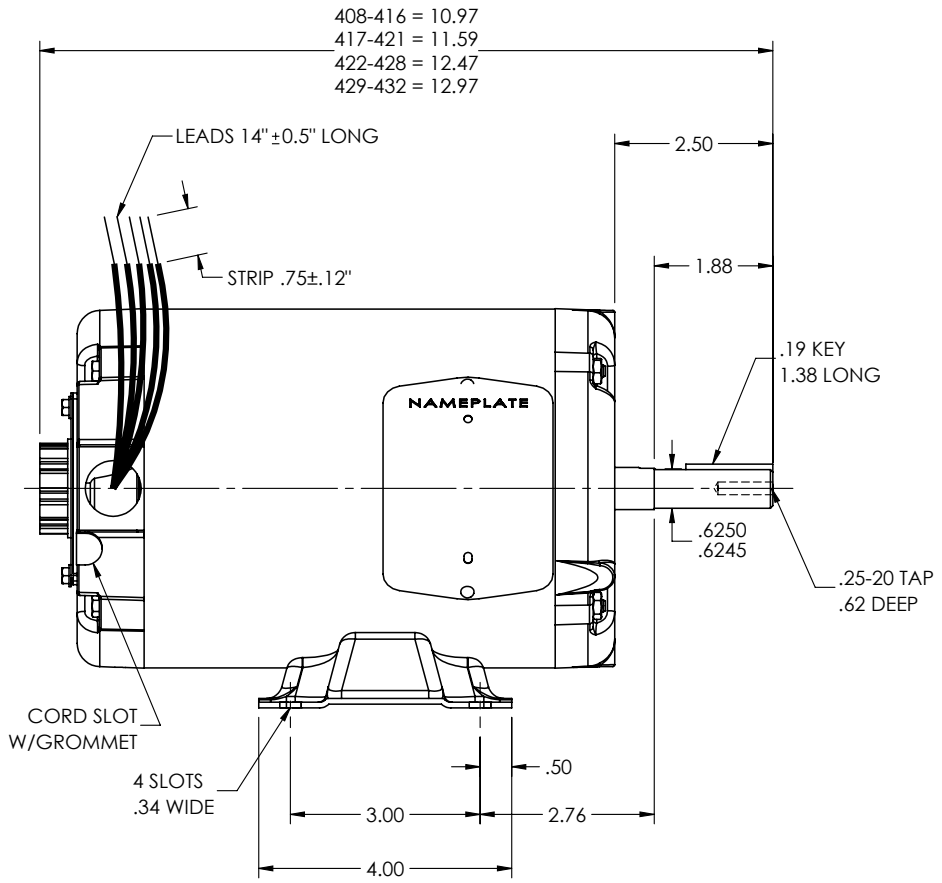
Typical performance - not guaranteed values.

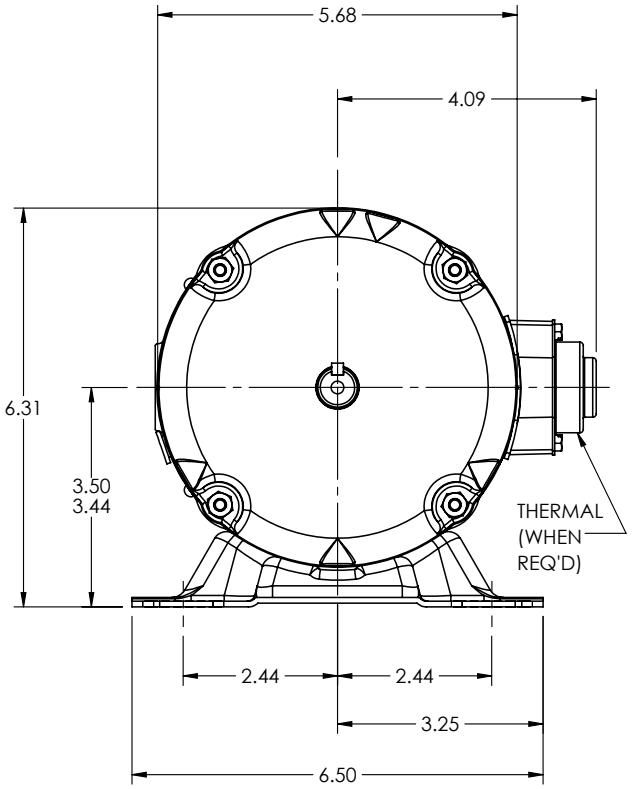
TORQUES(LB-FT): PO=6.5 PU=5.2 LR=5.5 LRA=11



11/18/2026 ACPERF, record # 6568

34LYK062





34LYK062

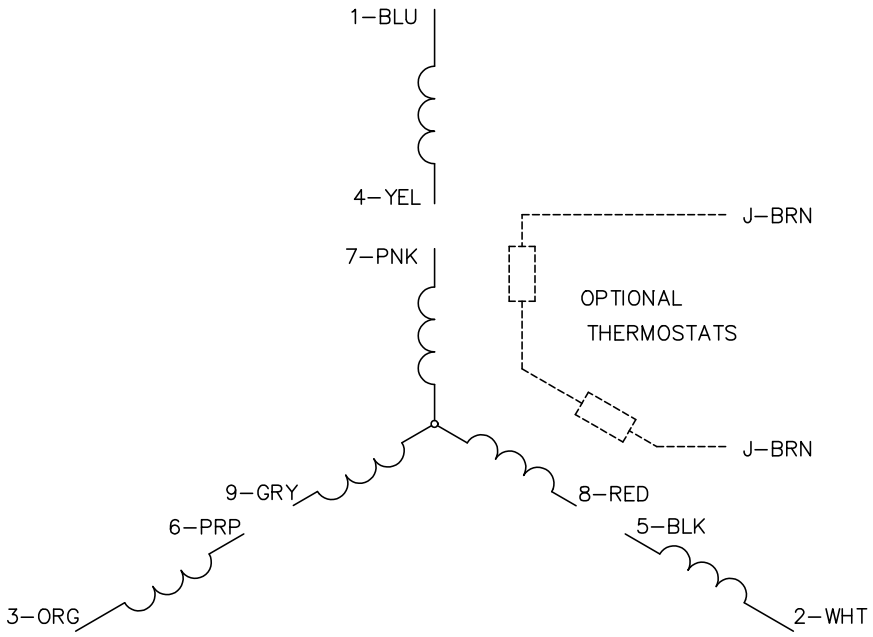
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

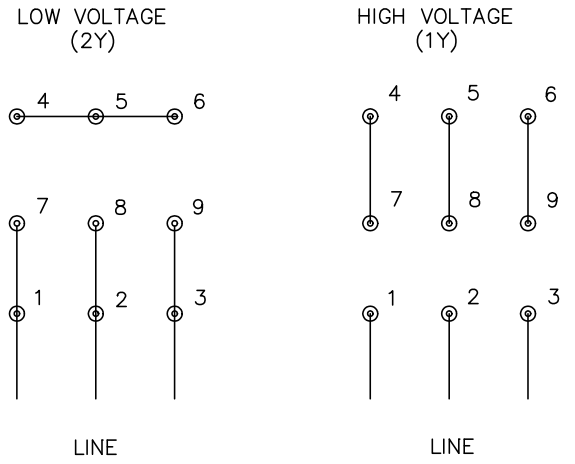
REV. DESC: LOAD TO SOLIDWORKS - REV J			
REV: K	VERSION: 02	REVISED: 09:26:24 01/06/2023	TDR: 000001201165
34LYK062	MODEL NO. 34LYK062		REF: -
	BY: ENFRAJ0		

BALDOR - RELIANCE®

HORZ MODEL 34M NEMA 56Z TENV W/TERM PANEL & .25-20 TAP

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