ABB BALDOR RELIANCE

Customer information packet

ERM3009

.5HP, 3450RPM, 3PH, 60HZ, 48, 3416M, OPEN, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	48
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	UR
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	.800 A @ 460.0 V
	1.600 A @ 230.0 V
	1.900 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	73.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	H
Type	AC
Mech. spec.	34K015
Base	
Status	PRD/A
Elec. spec.	34WGS937
Layout	34LYK015
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-30-2014

High Voltage Full Load Amps	0.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	P
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or 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	10.34 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.500 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

NP3155L											
CAT.NO.	ERM3009										
SPEC.	34K015S937G1										
HP	.5										
VOLTS	230/460										
AMP	1.6/.8										
RPM	3450										
FRAME	48		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	P	**DES**	B	**CL**	B				
F.L. AVG. EFF.	73.4	**PF**	78								
RATING	40C AMB-CONT										
CC											
DE	6203		**ODE**	6203							
ENCL	OPEN	**SN**									
	SFA 1.8/.9										

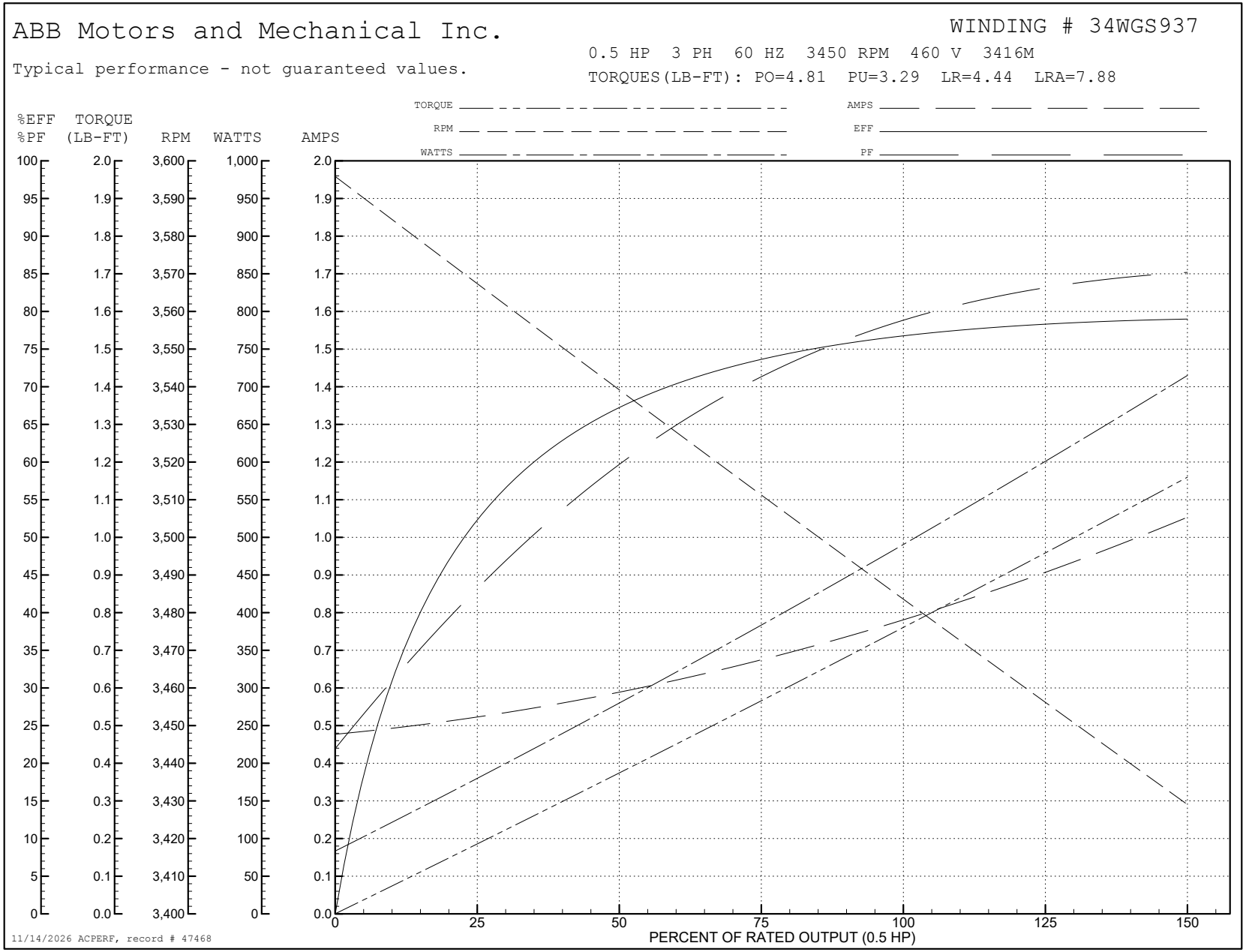
AC Induction Motor Performance Data
Record # 47468
Typical performance - not guaranteed values

Winding: 34WGS937-R002	**Type:** 3416M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	0.767 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/.8	**Breakdown Torque**	4.81 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.44 LB-FT
NEMA Design Code	B	**KVA Code**	P	**Starting Current**	7.88 A
Service Factor (S.F.)			1.25	**No-load Current**	0.48 A
NEMA Nom. Eff.	73.4	**Power Factor**	78	**Line-line Res. @ 25ºC**	22.08 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	15°C
S.F. Amps			1.8/.9	**Temp. Rise @ S.F. Load**	17°C
				Locked-rotor Power Factor	66
				Rotor inertia	0.0148 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	61	72	78	83	86	83
Efficiency	54	67.8	73.9	76.9	78.3	78.8	78.3
Speed	3560	3537.1	3511.5	3484.8	3456.5	3427.6	3456
Line amperes	0.524	0.591	0.676	0.79	0.911	1.05	0.911


ABB Motors and Mechanical Inc.
WINDING # 34WGS937
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3416M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=4.81 PU=3.29 LR=4.44 LRA=7.88
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/14/2026 ACPERF, record # 47468

AC Induction Motor Performance Data
Record # 49386
Typical performance - not guaranteed values

Winding: 34WGS937-R002	**Type:** 3416M	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	0.767 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/.8	**Breakdown Torque**	4.81 LB-FT
R.P.M.			3450	**Pull-up Torque**	3.29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.44 LB-FT
NEMA Design Code	B	**KVA Code**	P	**Starting Current**	15.76 A
Service Factor (S.F.)			1.25	**No-load Current**	0.96 A
NEMA Nom. Eff.	73.4	**Power Factor**	78	**Line-line Res. @ 25ºC**	5.52 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	15°C
S.F. Amps			1.8/.9	**Temp. Rise @ S.F. Load**	17°C
				Locked-rotor Power Factor	66
				Rotor inertia	0.0148 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	61	72	78	83	85	83
Efficiency	54	67.8	73.9	76.9	78.3	78.8	78.3
Speed	3560	3537.1	3511.5	3484.8	3456.5	3427.6	3456
Line amperes	1.048	1.182	1.352	1.58	1.822	2.1	1.822

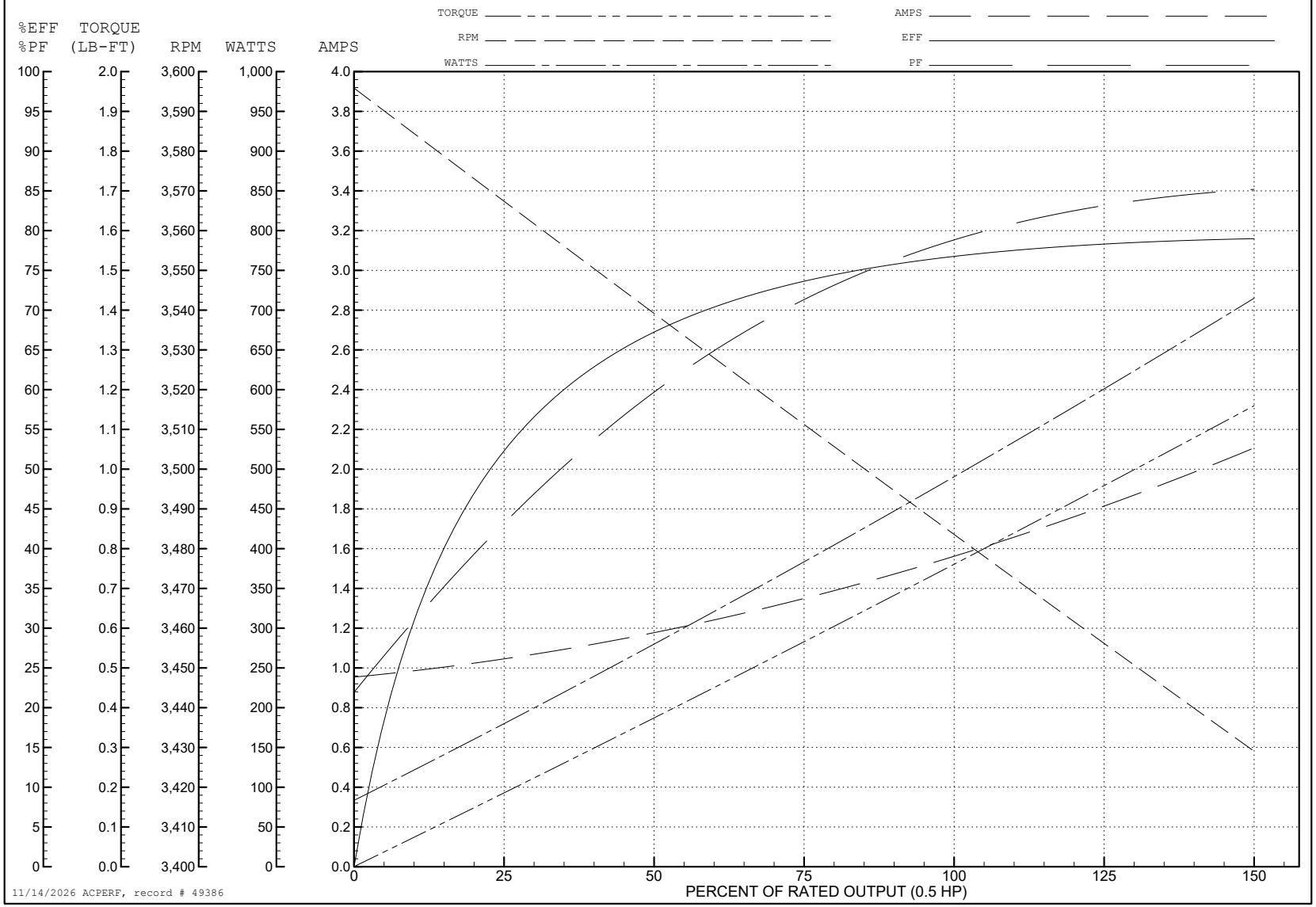
ABB Motors and Mechanical Inc.

WINDING # 34WGS937

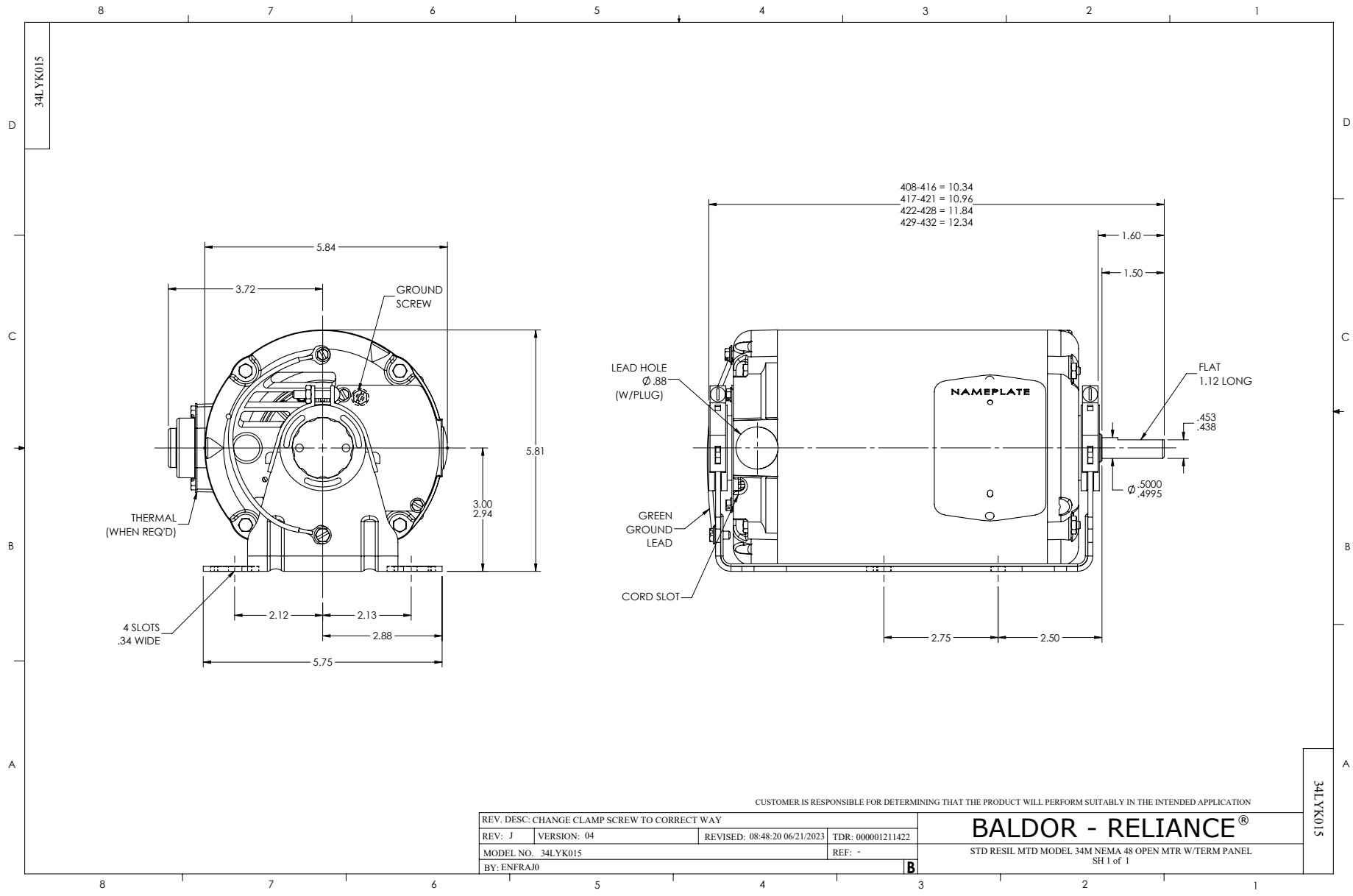
0.5 HP 3 PH 60 HZ 3450 RPM 230 V 3416M

Typical performance - not guaranteed values.

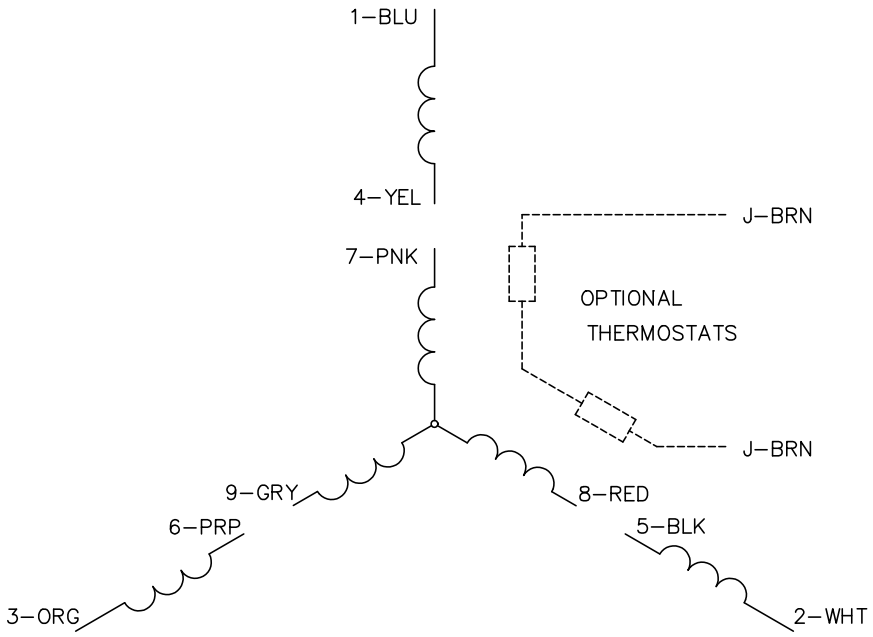
TORQUES(LB-FT): PO=4.81 PU=3.29 LR=4.44 LRA=15.76

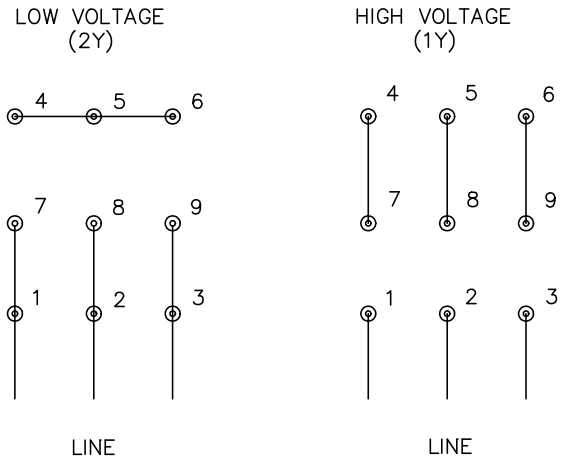


11/14/2026 ACPERF, record # 49386


34LYK015
5.84
3.72
GROUND SCREW
5.81
3.00
2.94
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 10.34
417-421 = 10.96
422-428 = 11.84
429-432 = 12.34
1.60
1.50
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
FLAT 1.12 LONG
.453
.438
Ø .5000
.4995
GREEN GROUND LEAD
CORD SLOT
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: J
VERSION: 04
REVISED: 08:48:20 06/21/2023
TDR: 000001211422
MODEL NO. 34LYK015
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL MTD MODEL 34M NEMA 48 OPEN MTR W/TERM PANEL
SH 1 of 1
34LYK015

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