ABB BALDOR RELIANCE

Customer information packet

ERM3108

.5HP, 1725RPM, 3PH, 60HZ, 56, 3424M, OPEN, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
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	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	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.100 A @ 208.0 V
	1.600 A @ 230.0 V
	.800 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.2 %
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.	34-1237
Base	
Status	PRD/A
Elec. spec.	34WGX110
Layout	34LY1237
Eff. date	10-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-06-2014

High Voltage Full Load Amps	0.8 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	J
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	3424M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.97 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
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

NP3155L									
CAT.NO.	ERM3108								
SPEC.	34-1237X110G1								
HP	.5								
VOLTS	230/460								
AMP	1.6/.8								
RPM	1725								
FRAME	56		**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	J	**DES**	B	**CL**	B		
F.L. AVG. EFF.	78.2	**PF**	78						
RATING	40C AMB-CONT								
CC									
DE	6203		**ODE**	6203					
ENCL	OPEN	**SN**							
	SFA 2/1								

AC Induction Motor Performance Data
Record # 47467
Typical performance - not guaranteed values

Winding: 34WGX110-R011	**Type:** 3424M	**Enclosure:** OPEN

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.57 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/.8	**Breakdown Torque**	5.24 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.12 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	6.16 A
Service Factor (S.F.)			1.25	**No-load Current**	0.474 A
NEMA Nom. Eff.	78.2	**Power Factor**	78	**Line-line Res. @ 25ºC**	30.994 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	25°C
S.F. Amps			2/1	**Temp. Rise @ S.F. Load**	34°C
				Locked-rotor Power Factor	53
				Rotor inertia	0.0572 LB-FT2

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	55	68	76	80	83	80
Efficiency	67.3	76.6	78.9	78.7	77.2	74.9	77.2
Speed	1782.6	1766.4	1749.5	1729.5	1707.4	1683.2	1707
Line amperes	0.509	0.586	0.687	0.815	0.971	1.14	0.971

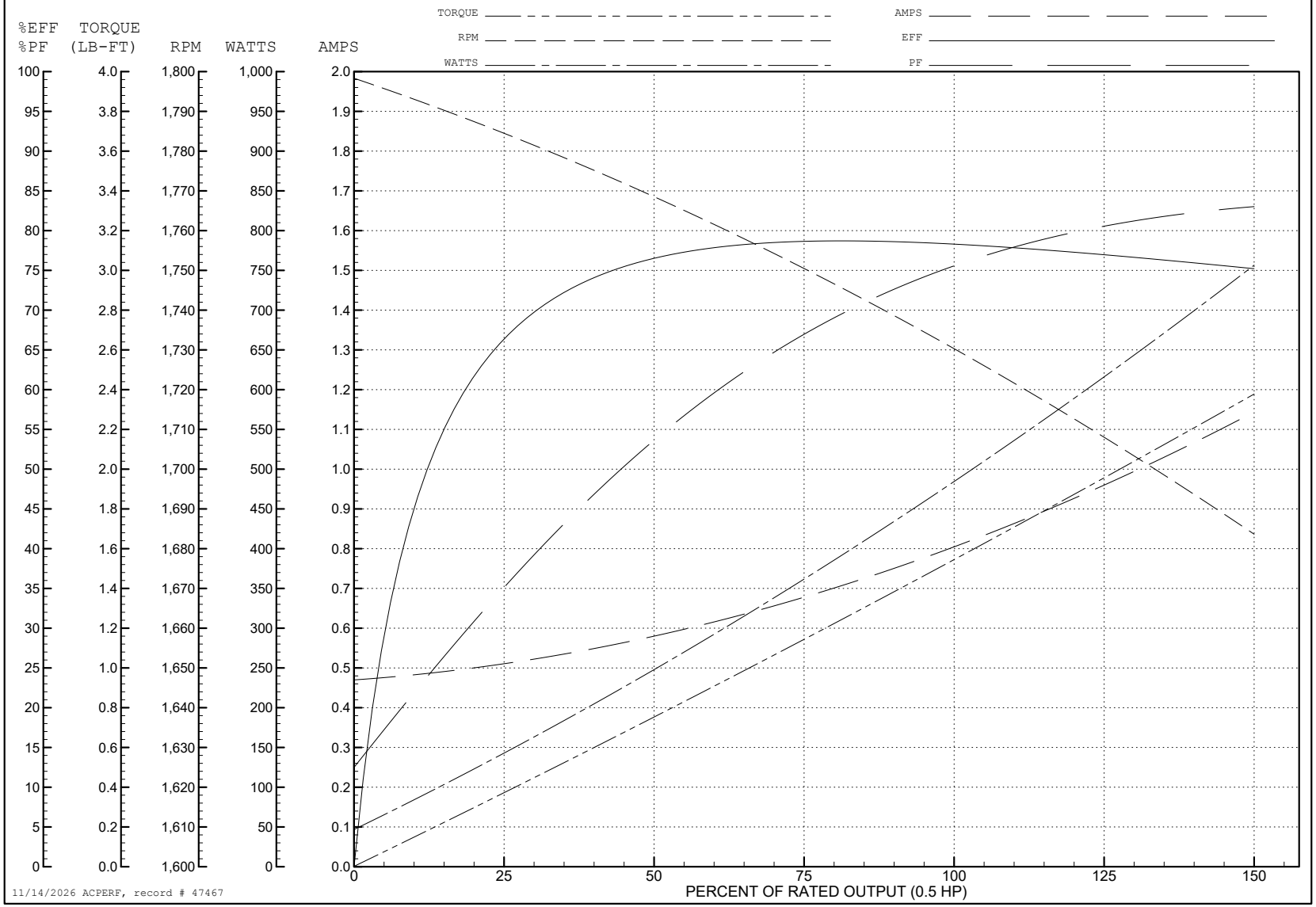
ABB Motors and Mechanical Inc.

WINDING # 34WGX110

0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3424M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=5.24 PU=3.8 LR=5.12 LRA=6.16



AC Induction Motor Performance Data
Record # 49381
Typical performance - not guaranteed values

Winding: 34WGX110-R011	**Type:** 3424M	**Enclosure:** OPEN

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.57 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.6/.8	**Breakdown Torque**	5.24 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.12 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	12.3 A
Service Factor (S.F.)			1.25	**No-load Current**	0.948 A
NEMA Nom. Eff.	78.2	**Power Factor**	78	**Line-line Res. @ 25ºC**	7.28 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	25°C
S.F. Amps			2/1	**Temp. Rise @ S.F. Load**	31°C
				Locked-rotor Power Factor	52.9
				Rotor inertia	0.0572 LB-FT2

Load Characteristics 230 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	56	68	76	80	83	80
Efficiency	67.5	76.4	78.6	78.6	77.1	75.1	77.1
Speed	1783	1766	1750	1730	1707	1683	1707
Line amperes	1.02	1.17	1.37	1.63	1.94	2.28	1.94

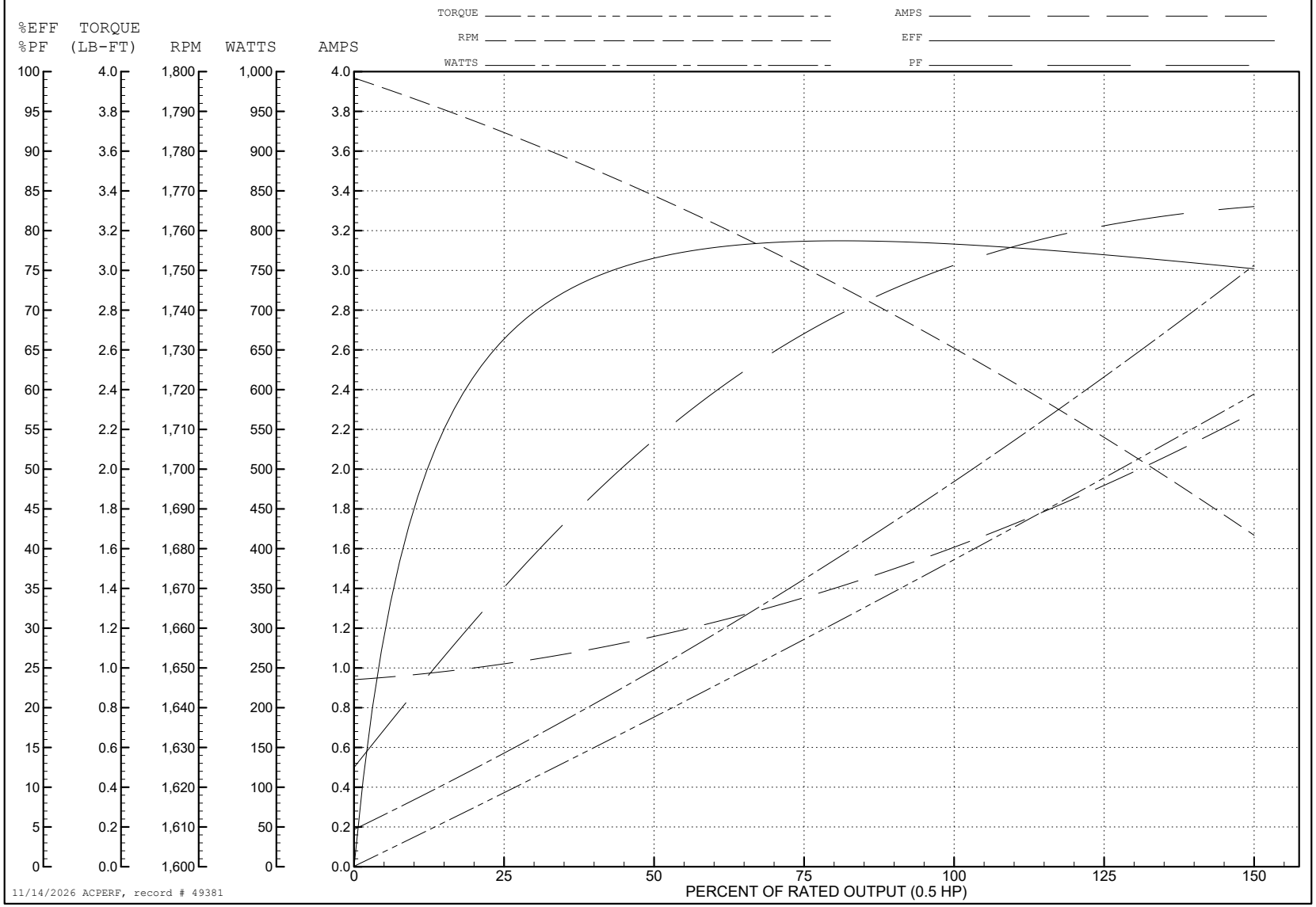
ABB Motors and Mechanical Inc.

WINDING # 34WGX110

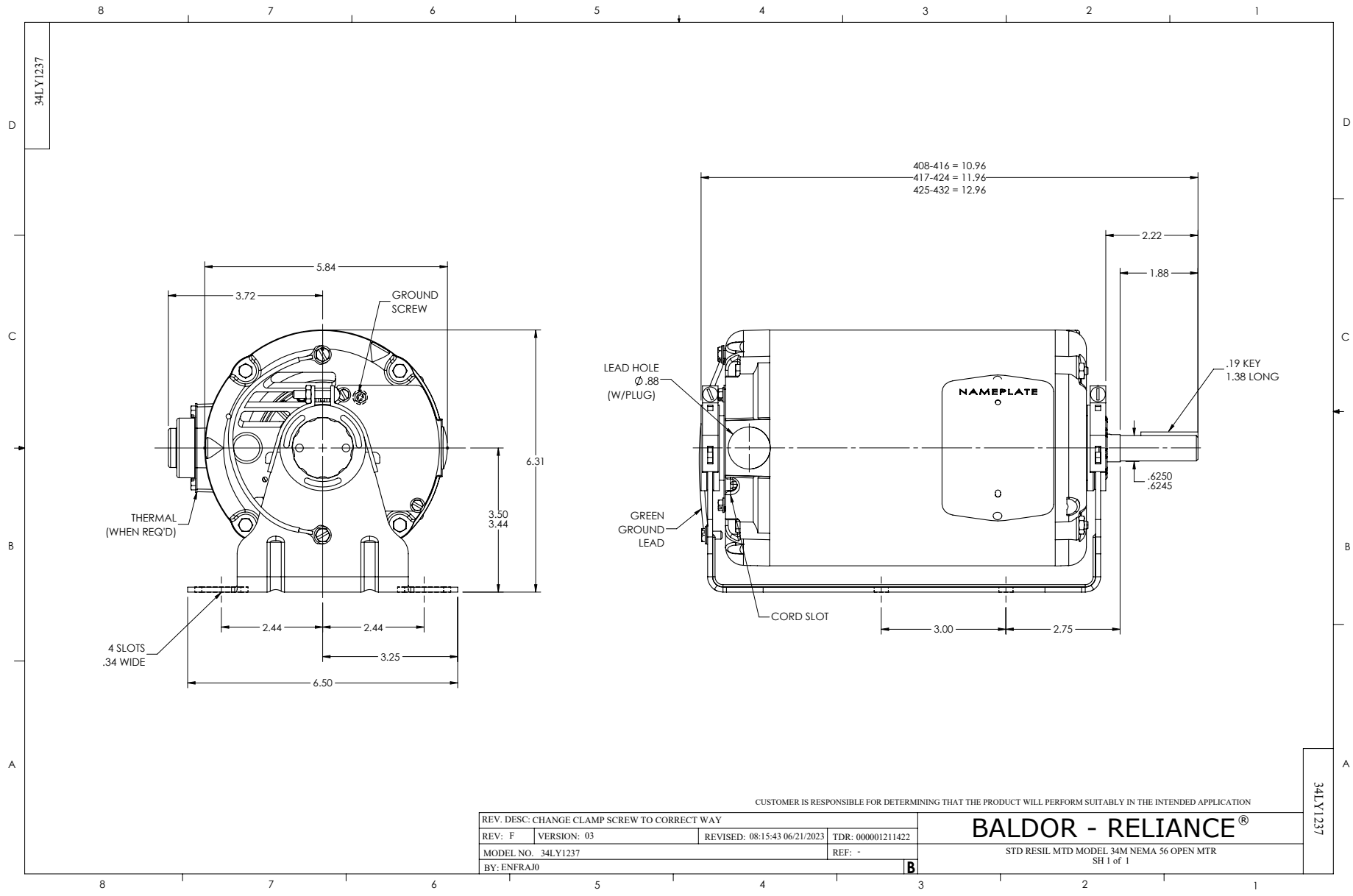
0.5 HP 3 PH 60 HZ 1725 RPM 230 V 3424M

Typical performance - not guaranteed values.

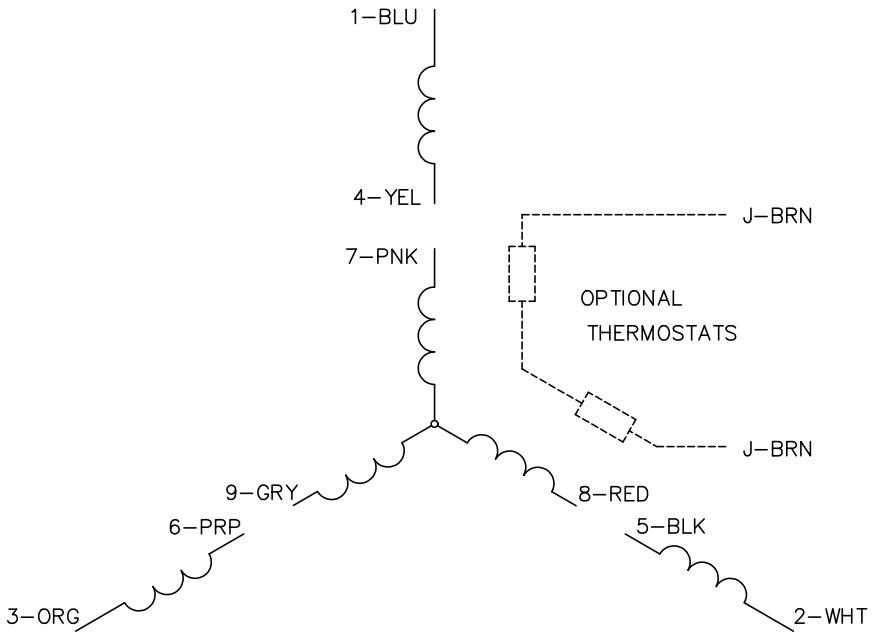
TORQUES(LB-FT): PO=5.24 PU=3.8 LR=5.12 LRA=12.3

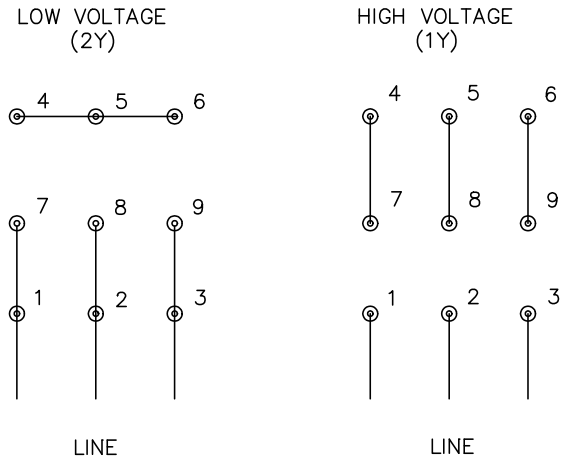


11/14/2026 ACPERF, record # 49381


34LY1237
5.84
3.72
GROUND SCREW
6.31
3.50
3.44
THERMAL (WHEN REQ'D)
2.44
2.44
3.25
6.50
4 SLOTS .34 WIDE
408-416 = 10.96
417-424 = 11.96
425-432 = 12.96
2.22
1.88
.19 KEY
1.38 LONG
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
.6250
.6245
GREEN GROUND LEAD
CORD SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: F
VERSION: 03
REVISED: 08:15:43 06/21/2023
TDR: 000001211422
MODEL NO. 34LY1237
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL MTD MODEL 34M NEMA 56 OPEN MTR
SH 1 of 1
34LY1237

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