

**BALDOR • RELIANCE**

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# Customer information packet

## ERM3108

.5HP, 1725RPM, 3PH, 60HZ, 56, 3424M, OPEN, F1, N

Class - None

Division - Not Applicable

## 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
Auxillary Box	No Auxillary Box
Auxillary 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**

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

**AC Induction Motor Performance Data**

Record # 47467

Typical performance - not guaranteed values

Winding: 34WGX110-R011		Type: 3424M	Enclosure: OPEN		
<b>Nameplate Data</b>			<b>460 V, 60 Hz: High Voltage Connection</b>		
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. @ 25°C	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-FT <sup>2</sup>	

**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

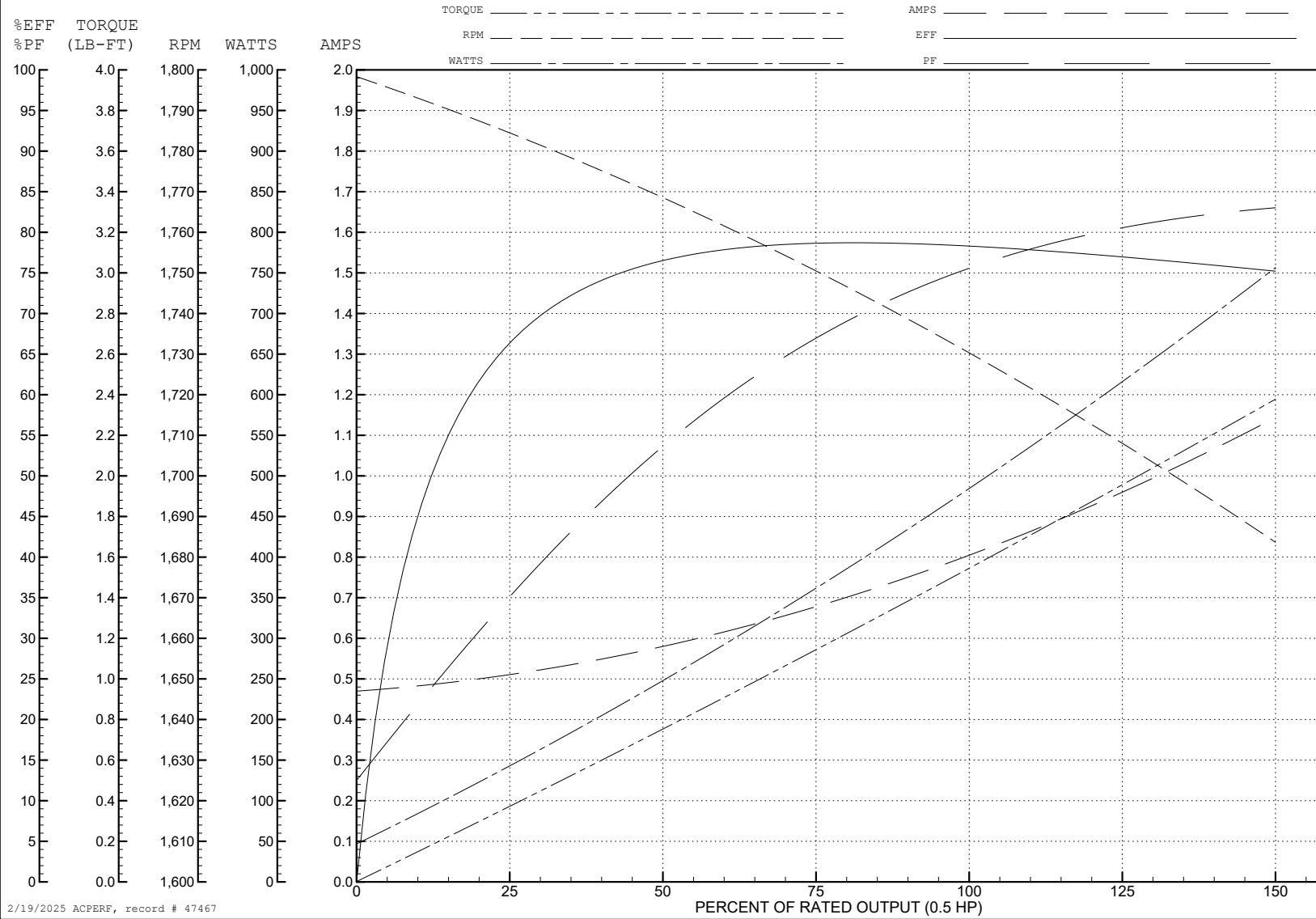
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WINDING # 34WGX110

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



2/19/2025 ACPERF, record # 47467

**AC Induction Motor Performance Data**

Record # 49381

Typical performance - not guaranteed values

Winding: 34WGX110-R011		Type: 3424M	Enclosure: OPEN			
<b>Nameplate Data</b>			<b>230 V, 60 Hz: Low Voltage Connection</b>			
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. @ 25°C	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-FT <sup>2</sup>		

**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

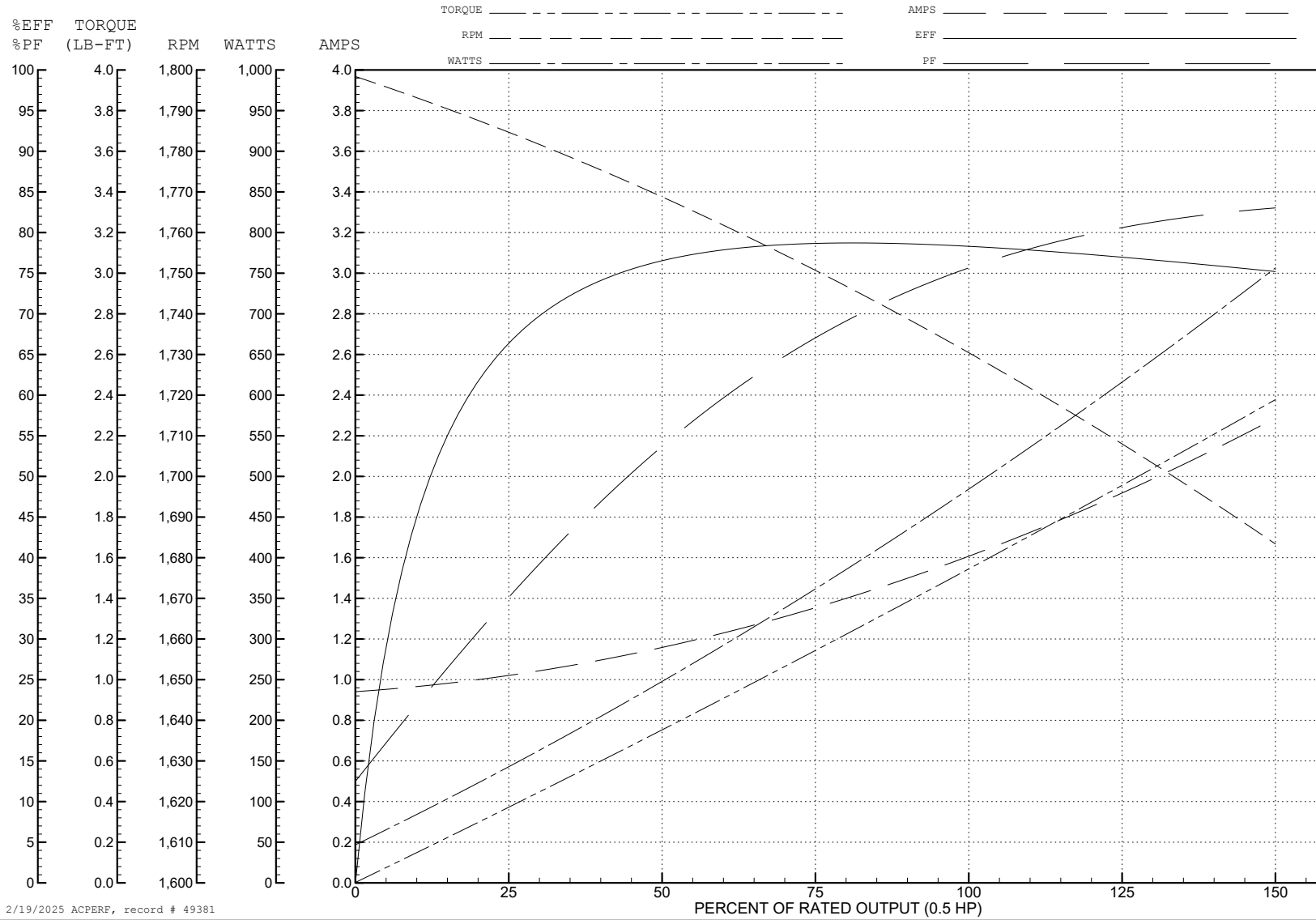
ABB Motors and Mechanical Inc.

WINDING # 34WGX110

Typical performance - not guaranteed values.

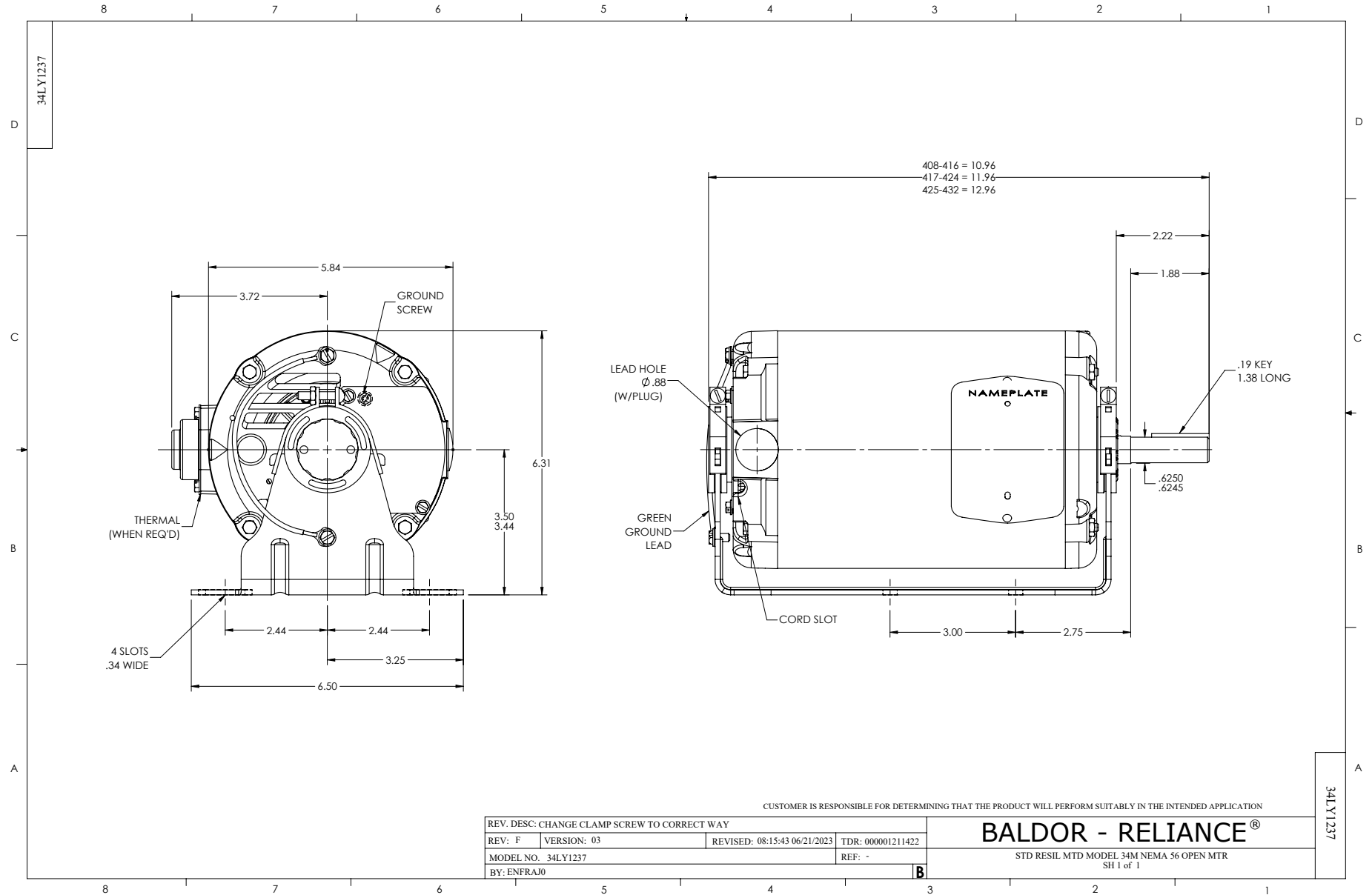
0.5 HP 3 PH 60 HZ 1725 RPM 230 V 3424M

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

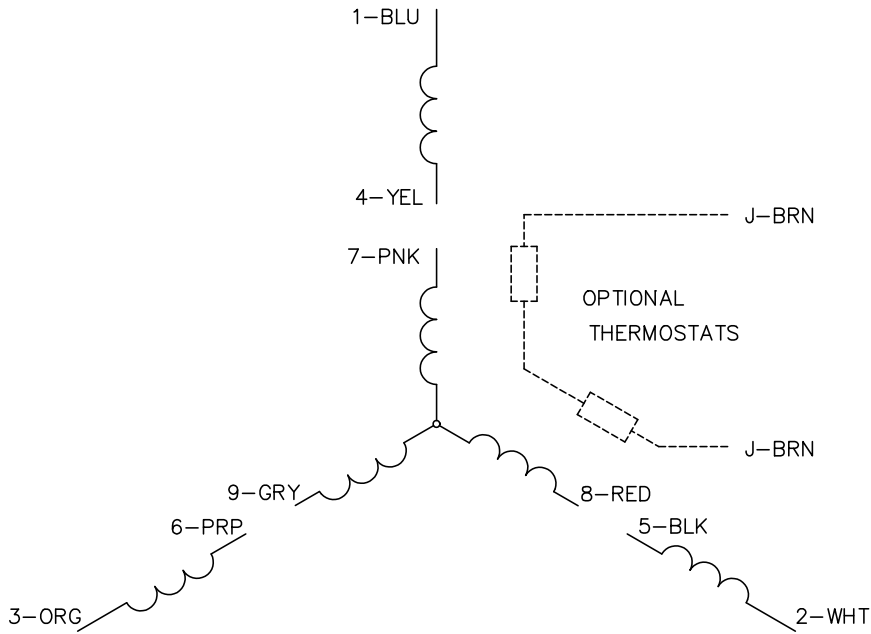


2/19/2025 ACPERF, record # 49381





CD0005



LOW VOLTAGE  
(2Y)



LINE

HIGH VOLTAGE  
(1Y)



LINE

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			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
S00000		FILE: AAA00005140	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS