ABB BALDOR RELIANCE

Customer information packet

RM3108

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

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11/18/2026 8:57:20 AM

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	1.000 A @ 460.0 V
	2.000 A @ 230.0 V
	2.500 A @ 208.0 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	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	P
Type	AC
Mech. spec.	34-1237
Base	
Status	NLA/A
Elec. spec.	34WG0872
Layout	34LY1237
Eff. date	01-23-2015
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	1.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
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	4
Overall Length	10.97 IN
Power Factor	63
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

Nameplate

NP1256L									
CAT.NO.	RM3108								
SPEC.	34-1237-872								
HP	.5								
VOLTS	230/460								
AMP	2/1								
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	OPEN	**SN**							
	SFA 2.4/1.2								

AC Induction Motor Performance Data
Record # 6598
Typical performance - not guaranteed values

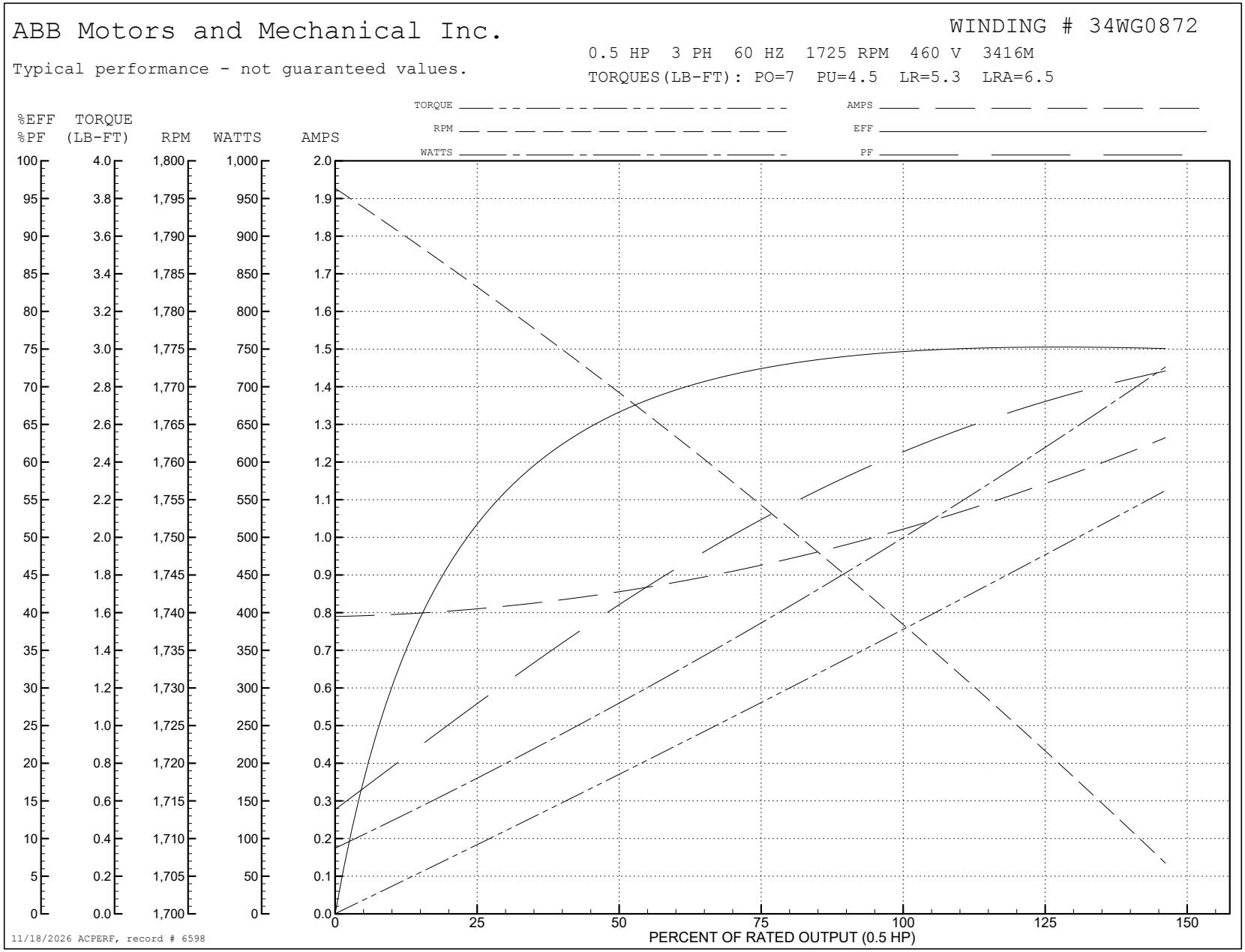
Winding: 34WG0872-R001	**Type:** 3416M	**Enclosure:** TEFC

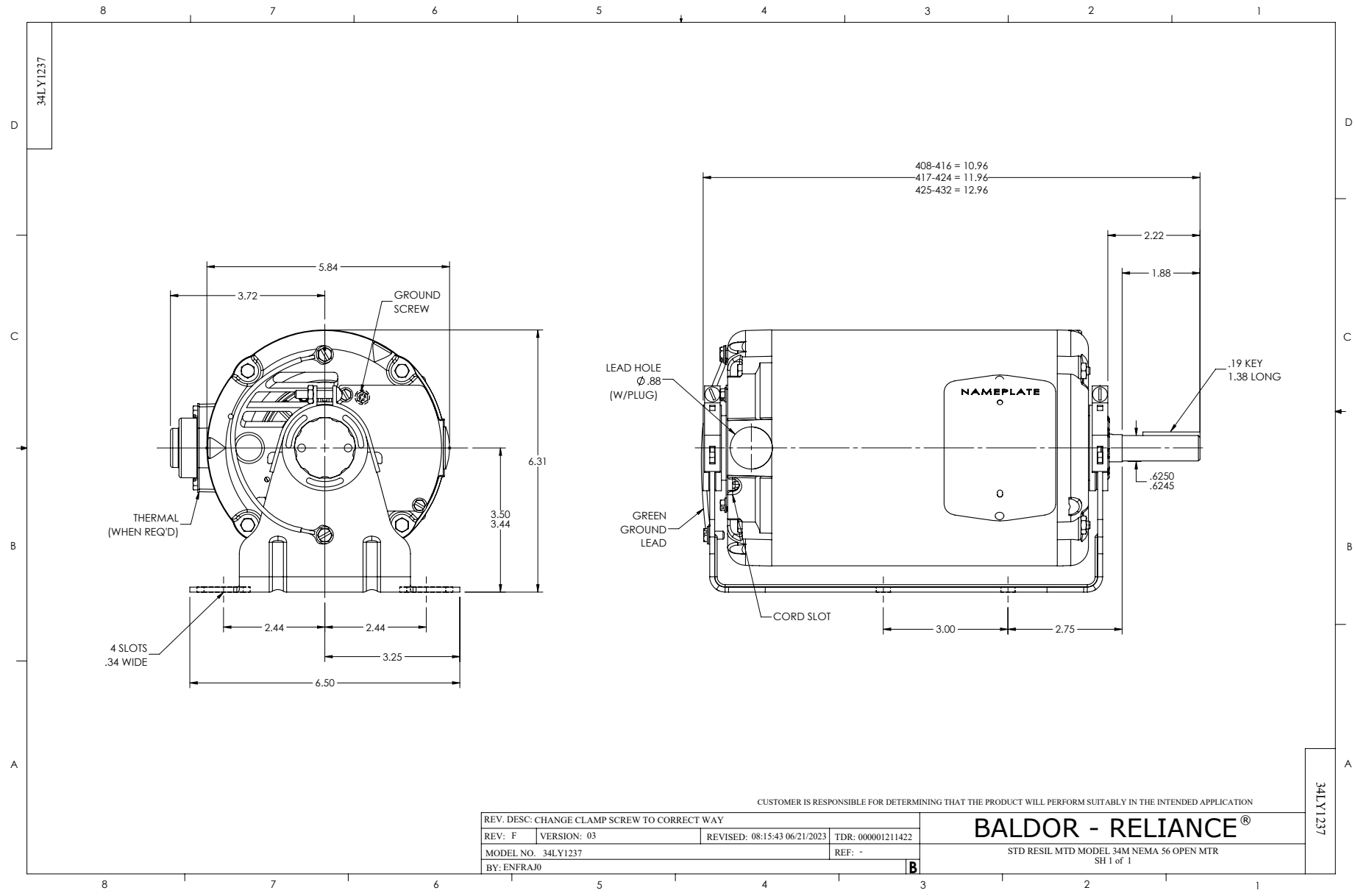
Nameplate Data			
Rated Output (HP)			.5
Volts			230/460
Full Load Amps			2/1
R.P.M.			1725
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	L
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	74	**Power Factor**	63
Rating - Duty			40C AMB-CONT
S.F. Amps			2.4/1.2

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.5 LB-FT
Start Configuration	direct on line
Breakdown Torque	7 LB-FT
Pull-up Torque	4.5 LB-FT
Locked-rotor Torque	5.3 LB-FT
Starting Current	6.5 A
No-load Current	0.8 A
Line-line Res. @ 25ºC	32 Ω
Temp. Rise @ Rated Load	65°C
Temp. Rise @ S.F. Load	77°C
Locked-rotor Power Factor	66
Rotor inertia	0.0381 LB-FT2

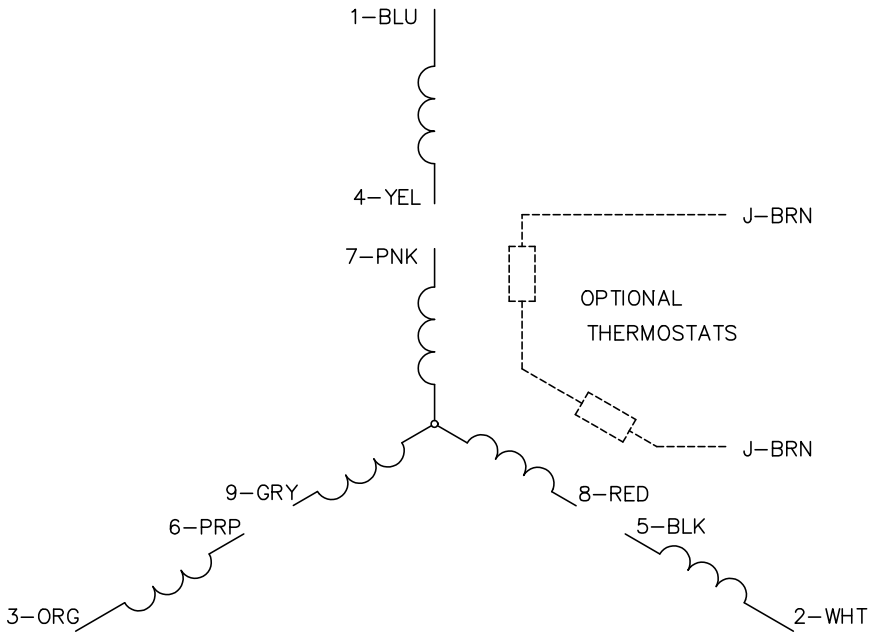
Load Characteristics 460 V, 60 Hz, 0.5 HP

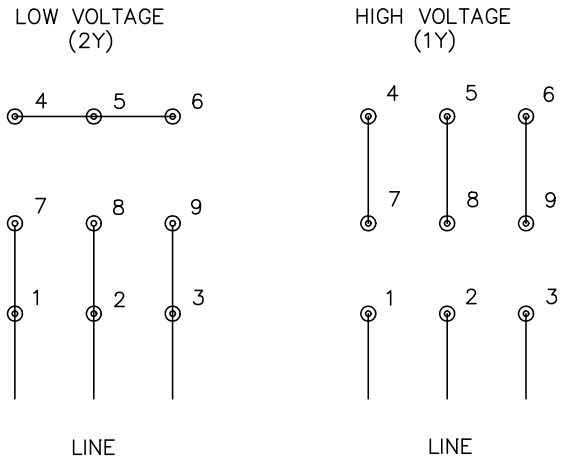
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	43	55	63	69	75	0
Efficiency	53.2	66.4	72.5	74.6	75.3	75.1	0
Speed	1782	1769	1754	1739	1724	1706	0
Line amperes	0.8	0.85	0.92	1.03	1.15	1.25	1.15


ABB Motors and Mechanical Inc.
WINDING # 34WG0872
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 1725 RPM 460 V 3416M
TORQUES(LB-FT): PO=7 PU=4.5 LR=5.3 LRA=6.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/18/2026 ACPERF, record # 6598


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