ABB BALDOR RELIANCE

Customer information packet

RL1307A

.75HP, 1725RPM, 1PH, 60HZ, 56, 3428L, OPEN, F1
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	Cap Start, Induction Run
Output @ Frequency	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 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	10.200 A @ 115.0 V
	5.100 A @ 230.0 V
	6.000 A @ 208.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
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	H
Type	AC
Mech. spec.	34G084
Base	
Status	PRD/A
Elec. spec.	34WGW169
Layout	34LYG084
Eff. date	10-25-2024
CD Diagram	CD0052
Poles	04
Leads	6#18,1#14 #1TH
Proprietary	False
Created date	03-13-2013

High Voltage Full Load Amps	5.1 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3428L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.96 IN
Power Factor	68
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	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
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	Automatic Thermal Overload

Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	RL1307A										
SPEC.	34G084W169G2										
HP	.75										
VOLTS	115/230										
AMP	10.2/5.1										
RPM	1725										
FRAME	56		**HZ**	60		**PH**	1				
SER.F.	1.25	**CODE**	K	**DES**	N	**CL**	B				
NEMA-NOM-EFF	68	**PF**	68								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 11.4/5.7										

AC Induction Motor Performance Data
Record # 6904
Typical performance - not guaranteed values

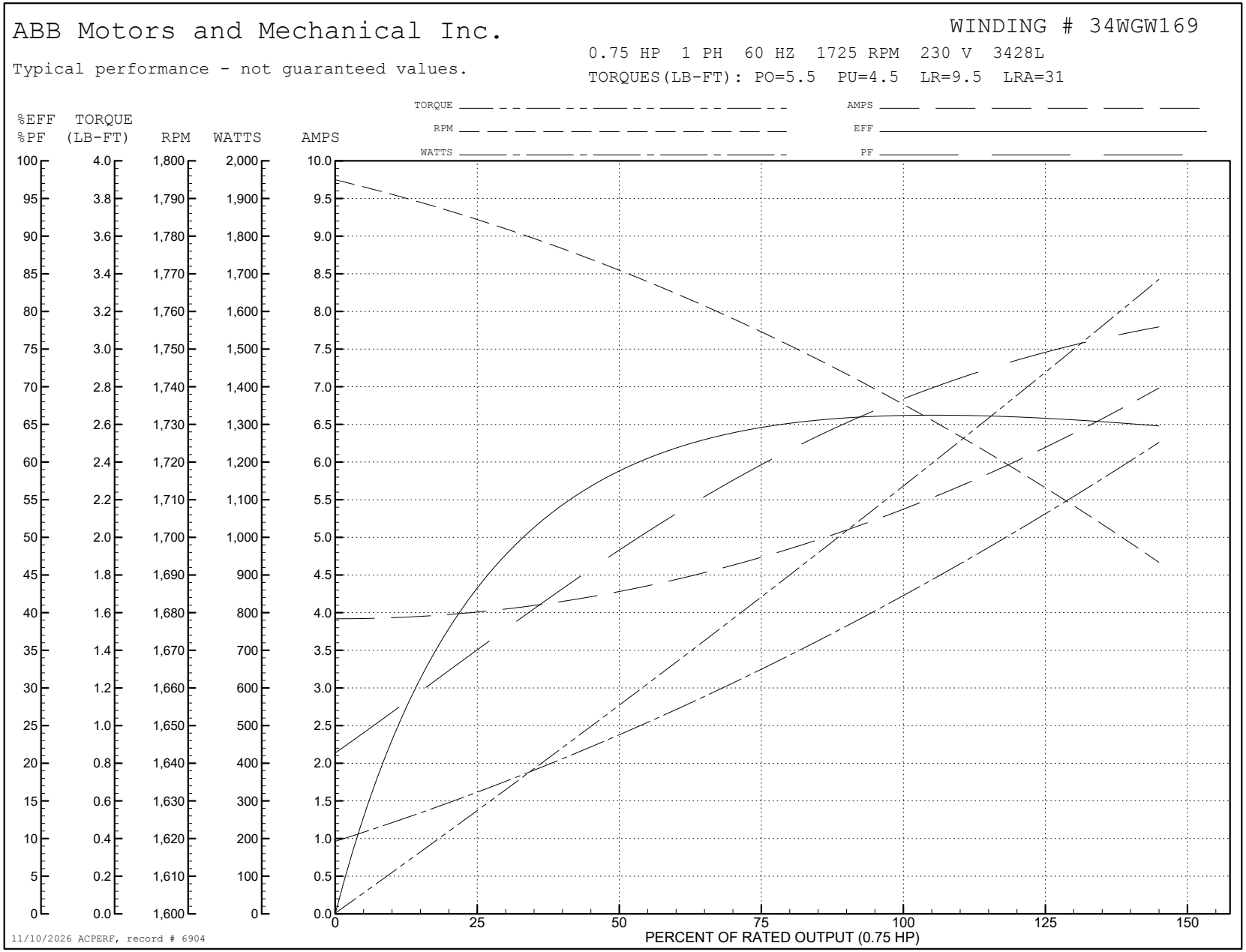
Winding: 34WGW169-R001 **Type:** 3428L **Enclosure:** OPEN

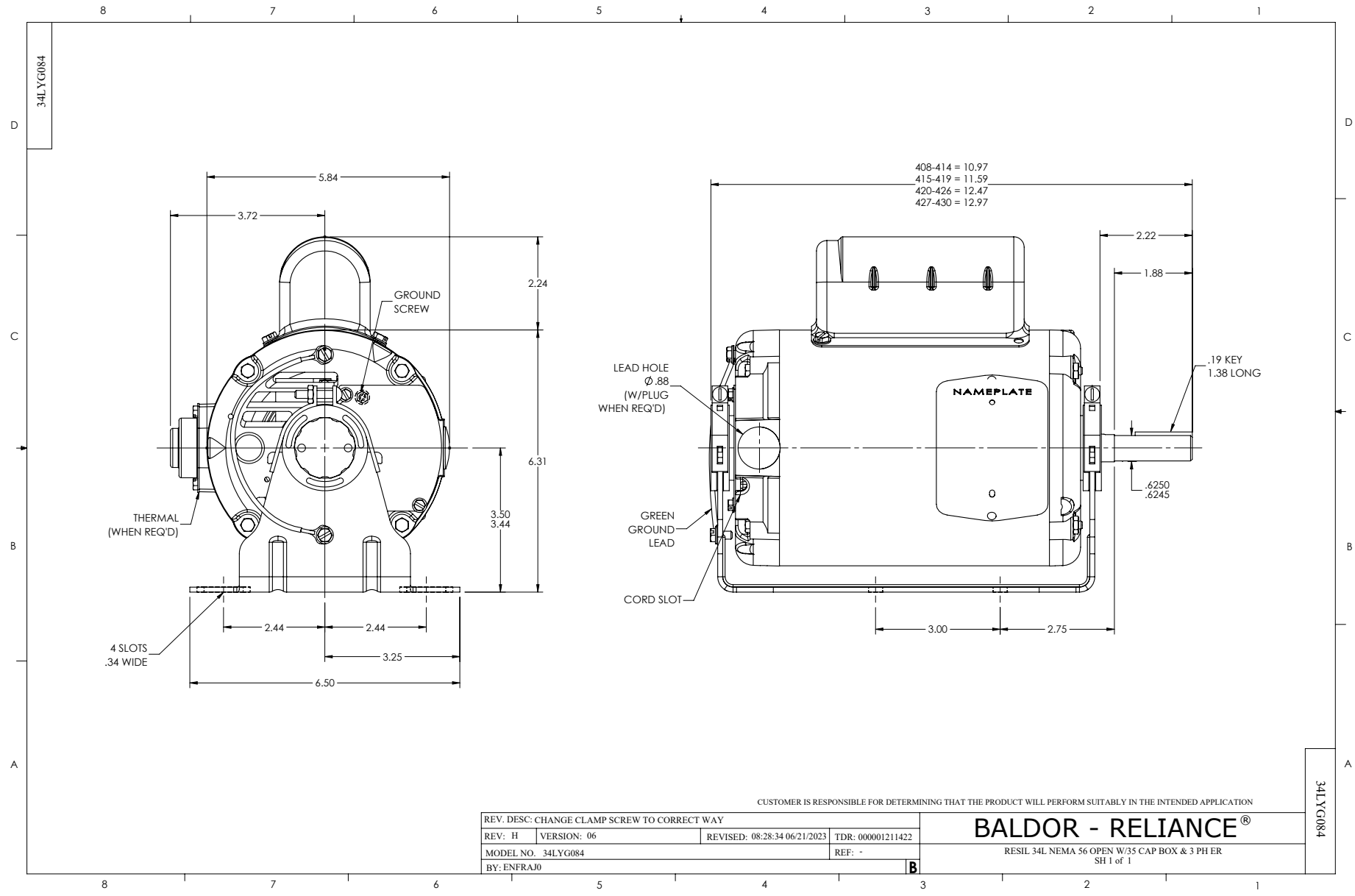
Nameplate Data			
Rated Output (HP)			.75
Volts			115/230
Full Load Amps			10.2/5.1
R.P.M.			1725
Hz	60	**Phase**	1
NEMA Design Code	N	**KVA Code**	K
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	68	**Power Factor**	68
Rating - Duty			40C AMB-CONT
S.F. Amps			11.4/5.7

230 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.25 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.5 LB-FT
Pull-up Torque	4.5 LB-FT
Locked-rotor Torque	9.5 LB-FT
Starting Current	31 A
No-load Current	3.9 A
Line-line Res. @ 25ºC	3.1 Ω A Ph 1.64 Ω B Ph
Temp. Rise @ Rated Load	74°C
Temp. Rise @ S.F. Load	90°C

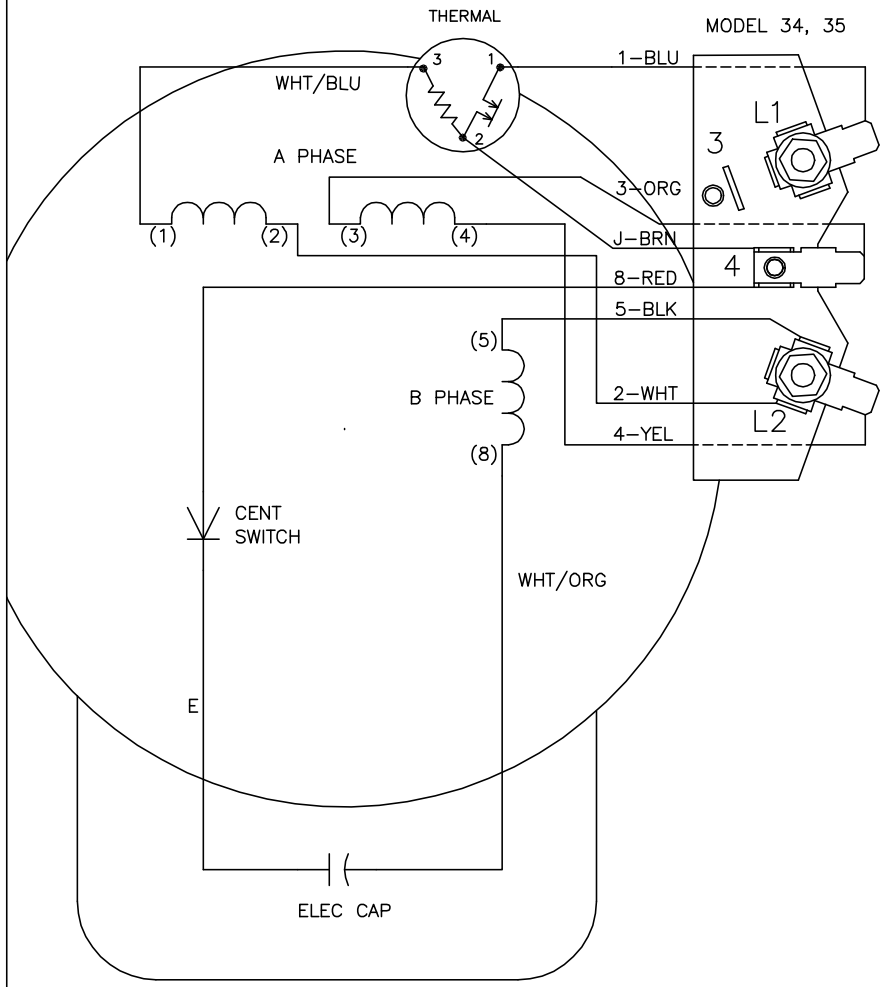
Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	49	63	70	76	80	76
Efficiency	45.4	59.1	62.7	66.7	66.8	64.4	66.8
Speed	1783	1770	1754	1737	1717	1692	1717
Line amperes	4.05	4.25	4.8	5.3	6.1	7	6.1


ABB Motors and Mechanical Inc.
WINDING # 34WGW169
Typical performance - not guaranteed values.
0.75 HP 1 PH 60 HZ 1725 RPM 230 V 3428L
TORQUES(LB-FT): PO=5.5 PU=4.5 LR=9.5 LRA=31
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
11/10/2026 ACPERF, record # 6904


34LYG084
5.84
3.72
2.24
GROUND SCREW
6.31
3.50
3.44
THERMAL (WHEN REQ'D)
2.44
2.44
3.25
6.50
4 SLOTS .34 WIDE
408-414 = 10.97
415-419 = 11.59
420-426 = 12.47
427-430 = 12.97
2.22
1.88
.19 KEY
1.38 LONG
LEAD HOLE Ø .88 (W/PLUG WHEN REQ'D)
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: H
VERSION: 06
REVISED: 08:28:34 06/21/2023
TDR: 000001211422
MODEL NO. 34LYG084
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34L NEMA 56 OPEN W/35 CAP BOX & 3 PH ER
SH 1 of 1
34LYG084

CD0052



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3.
   MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0052

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: H	VERSION: 01	TDR: 000000373039	
CD0052	FILE: \AAA\00007\100	REVISED: 10:20:46 08/11/2005	TYPE L, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	