# Customer information packet

CJL1303A

.5HP, 3450RPM, 1PH, 60HZ, 56J, 3420L, OPEN, F1
Class - None
Division - Not Applicable

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11/18/2026 2:42:00 AM

## Specifications

| | |
|---|---|
| **Enclosure** | OPEN |
| **Frame** | 56J |
| **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** | .500 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 7.400 A @ 115.0 V |
| | 3.700 A @ 230.0 V |
| **Design Code** | N |
| **Drip Cover** | Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 66.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Drip Cover Mounting |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.7 a |

## Part Detail

| | |
|---|---|
| **Revision** | AF |
| **Type** | AC |
| **Mech. spec.** | 34F492 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG2413 |
| **Layout** | 34LYF492 |
| **Eff. date** | 09-15-2026 |
| **CD Diagram** | CD0307 |
| **Poles** | 02 |
| **Leads** | 5#18,1#16 #1TH |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Terminal Panel Or Lead Hole |
| **Motor Lead Quantity/Wire Size** | 5 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3420L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 12.51 IN |
| **Power Factor** | 67 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Ext Thread |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.60 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Fixed Opposite Standard |
| **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** | Automatic Thermal Overload |
| **Winding Thermal 1 Location** | SB |

| | |
|---|---|
| **Winding Thermal 2** | None |

**Nameplate**

| NP1257L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | CJL1303A | | | | | | | | | | |
| **SPEC.** | 34F492-2413G1 | | | | | | | | | | |
| **HP** | .5 | | | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | | | |
| **AMP** | 7.4/3.7 | | | | | | | | | | |
| **RPM** | 3450 | | | | | | | | | | |
| **FRAME** | 56J | | **HZ** | 60 | | **PH** | 1 | | | | |
| **SER.F.** | 1.60 | **CODE** | L | **DES** | N | **CL** | B | | | | |
| **NEMA-NOM-EFF** | 66 | **PF** | 67 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | | | |
| | SFA 9.4/4.7 | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 6647
Typical performance - not guaranteed values

| **Winding:** 34WG2413-R001 | **Type:** 3420L | **Enclosure:** OPEN |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .5 | **Full Load Torque** | 0.75 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.4/3.7 | **Breakdown Torque** | 2.3 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 1.9 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 2 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | L | **Starting Current** | 20 A |
| **Service Factor (S.F.)** | | | 1.6 | **No-load Current** | 2.75 A |
| **NEMA Nom. Eff.** | 66 | **Power Factor** | 67 | **Line-line Res. @ 25ºC** | 3.55 Ω A Ph<br>2.56 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 33°C |
| **S.F. Amps** | | | 9.4/4.7 | **Temp. Rise @ S.F. Load** | 53°C |

**Load Characteristics 230 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 38 | 50 | 60 | 67 | 73 | 77 | 78 |
| **Efficiency** | 36 | 52 | 61 | 66 | 69 | 71 | 71 |
| **Speed** | 3570 | 3550 | 3530 | 3511 | 3490 | 3465 | 3460 |
| **Line amperes** | 2.9 | 3.1 | 3.35 | 3.7 | 4.05 | 4.5 | 4.7 |

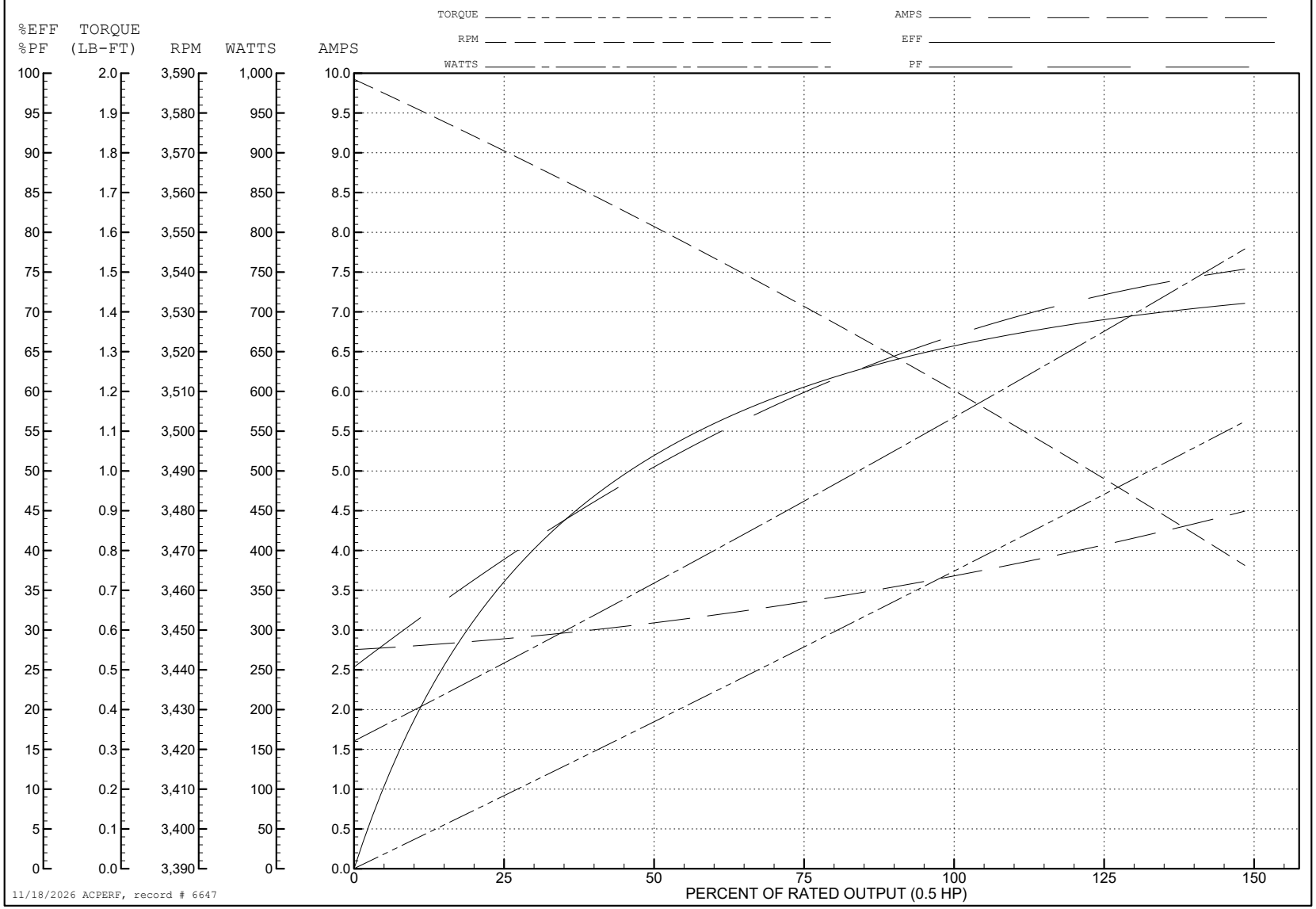
ABB Motors and Mechanical Inc.

WINDING # 34WG2413

Typical performance - not guaranteed values.

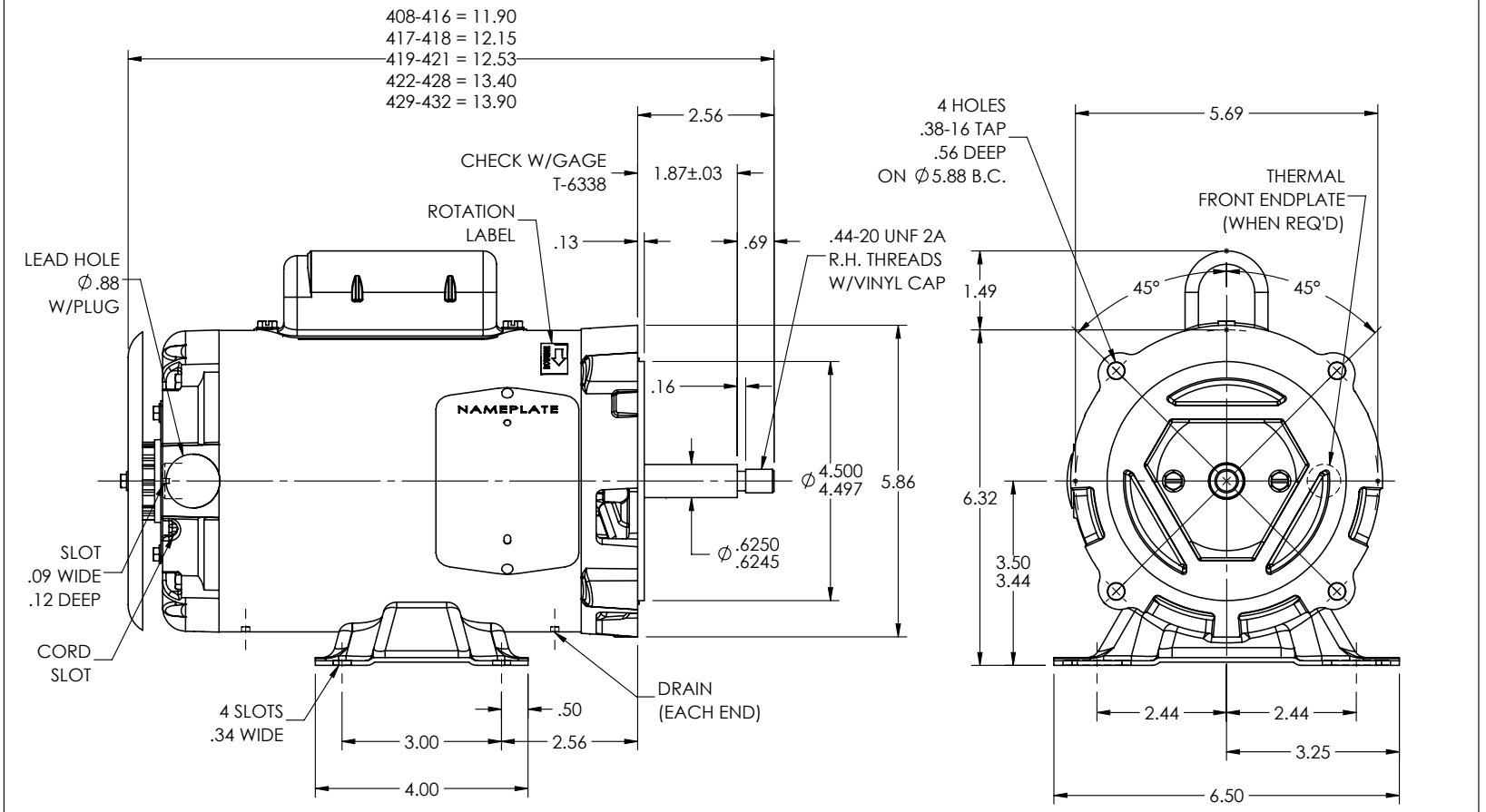
0.5 HP 1 PH 60 HZ 3450 RPM 230 V 3420L

TORQUES(LB-FT): PO=2.3 PU=1.9 LR=2 LRA=20




11/18/2026 ACPERF, record # 6647

34LYF492




CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

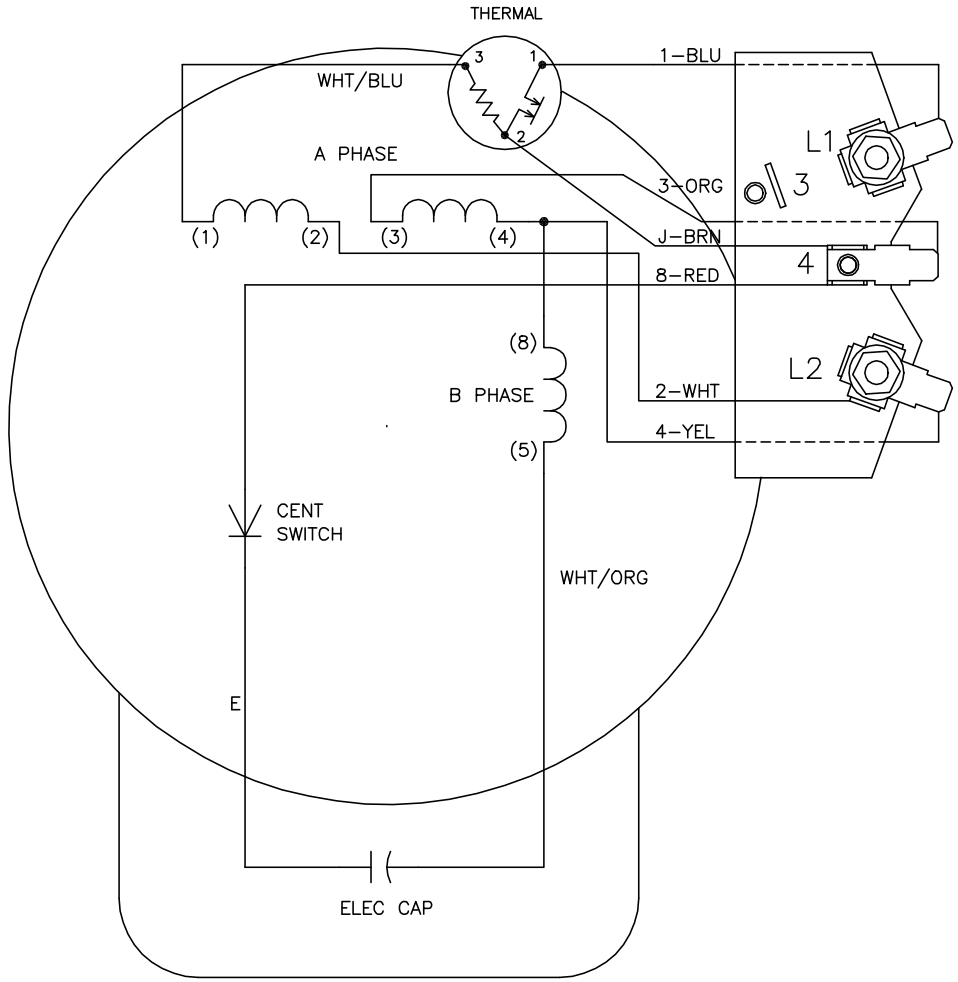
| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO SOLIDWORKS - REV A | | | |
| REV: B | VERSION: 02 | REVISED: 11:38:57 12/29/2022 | TDR: 000001201165 |
| 34LYF492 | MODEL NO. 34LYF492 | | REF: - |
| | BY: ENFRAJ0 | | |

BALDOR - RELIANCE®

SPL HORZ 34L NEMA 56J OPEN W/DRIPCOVER, THERM IN T.P. EP

34LYF492

CD0307




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 OPPOSITE STANDARD ROTATION (CW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE 5 AND 8 INTERNALLY FOR STANDARD ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | VERSION: 01 | TDR: 000000373039 | |
| CD0307 | FILE: \AAA\00007\308 | REVISED: 11:45:00 08/11/2005 | TYPE L, DV, FIX ROT, THERMAL, TERMINAL PLATE (OPP STD) |
| | MTL: – | BY: ENJOEP0 | |

CD0307