ABB BALDOR RELIANCE

# Customer information packet

JM3006

.33HP, 3450RPM, 3PH, 60HZ, 56J, 3410M, OPEN, F1
Class - None
Division - Not Applicable

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## 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** | Three Phase |
| **Output @ Frequency** | .330 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 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** | No Mounting |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 2.400 A @ 208.0 V |
| | 1.600 A @ 230.0 V |
| | .800 A @ 460.0 V |
| **Design Code** | B |
| **Drip Cover** | Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 62.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Drip Cover Mounting |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | Z |
| **Type** | AC |
| **Mech. spec.** | 34F038 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG5464 |
| **Layout** | 34LYF038 |
| **Eff. date** | 08-10-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 02 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 0.8 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | P |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3410M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 11.72 IN |
| **Power Factor** | 61 |
| **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** | 1.75 |
| **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** | 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 |

**Nameplate**

| NP1256L | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | JM3006 | | | | | | | | | | |
| **SPEC.** | 34F38-5464 | | | | | | | | | | |
| **HP** | .33 | | | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | | | |
| **AMP** | 1.6/.8 | | | | | | | | | | |
| **RPM** | 3450 | | | | | | | | | | |
| **FRAME** | 56J | | **HZ** | 60 | | | **PH** | 3 | | | |
| **SER.F.** | 1.75 | **CODE** | P | **DES** | B | **CLASS** | | B | | | |
| **NEMA-NOM-EFF** | 62 | **PF** | 61 | | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | | |
| **CC** | | | | | | | | | | | |
| **DE** | 6203 | | **ODE** | 6203 | | | | | | | |
| **ENCL** | OPEN | **SN** | | | | | | | | | |
| | SFA 2.2/1.1 | | | | | | | | | | |

**Parts List**

| Part number | Description | Quantity |
|---|---|---|
| SA018248 | SA 34F38-5464 | 1.000 ea |
| RA014403 | RA 34F38-5464 | 1.000 ea |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 ea |
| 34CB3002A | CB CAST W/.88 DIA HOLE | 1.000 ea |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 2.000 ea |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| 34EP3212A03 | FR EP 34L FOR DRIP CVR | 1.000 ea |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 ea |
| 34EP3401A01P | PU ENDPLATE, MACH/PAINTED | 1.000 ea |
| 34AD2000 | BAFFLE PLATE, STAMPED | 1.000 ea |
| 60XW0632A06 | 6-32 X 3/8 TORX HEAD SCREW TAPTITE II | 4.000 ea |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 ea |
| 34FH4000A15 | DRIP COVER, STAMPED,PRIMER | 1.000 ea |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| WD4101A09 | STIMPSON D3560, .875 DIA. HOLE PLUG | 1.000 ea |
| 34CB4517 | CB LID 4 MTG HOLES .22 DIA STAMPED, FOR | 1.000 ea |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 ea |
| RM1010A01 | 35-968-1 VINYL CLS | 1.000 ea |
| MG1050G01 | CELEROL MEDIUM CHARCOAL METALLIC GRAY | 0.014 ga |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 ea |
| HA3100A12 | THRUBOLT 10-32 X 7.375 | 4.000 ea |
| MN416A01 | TAG-INSTAL-MAINT no wire (2500 bx)11/25 | 1.000 ea |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 ea |
| NP1256L | ALUM UL CC INDUSTRIAL MOTOR A60 | 1.000 ea |
| 34PA1002 | PKG GRP, PRINT PK1001A02 | 1.000 ea |
| PK3083 | STYROFOAM PACKING CRADLE | 1.000 ea |
| PK3088 | MICROFOAM, 8"X"8 PERF. SHEETS | 1.000 ea |

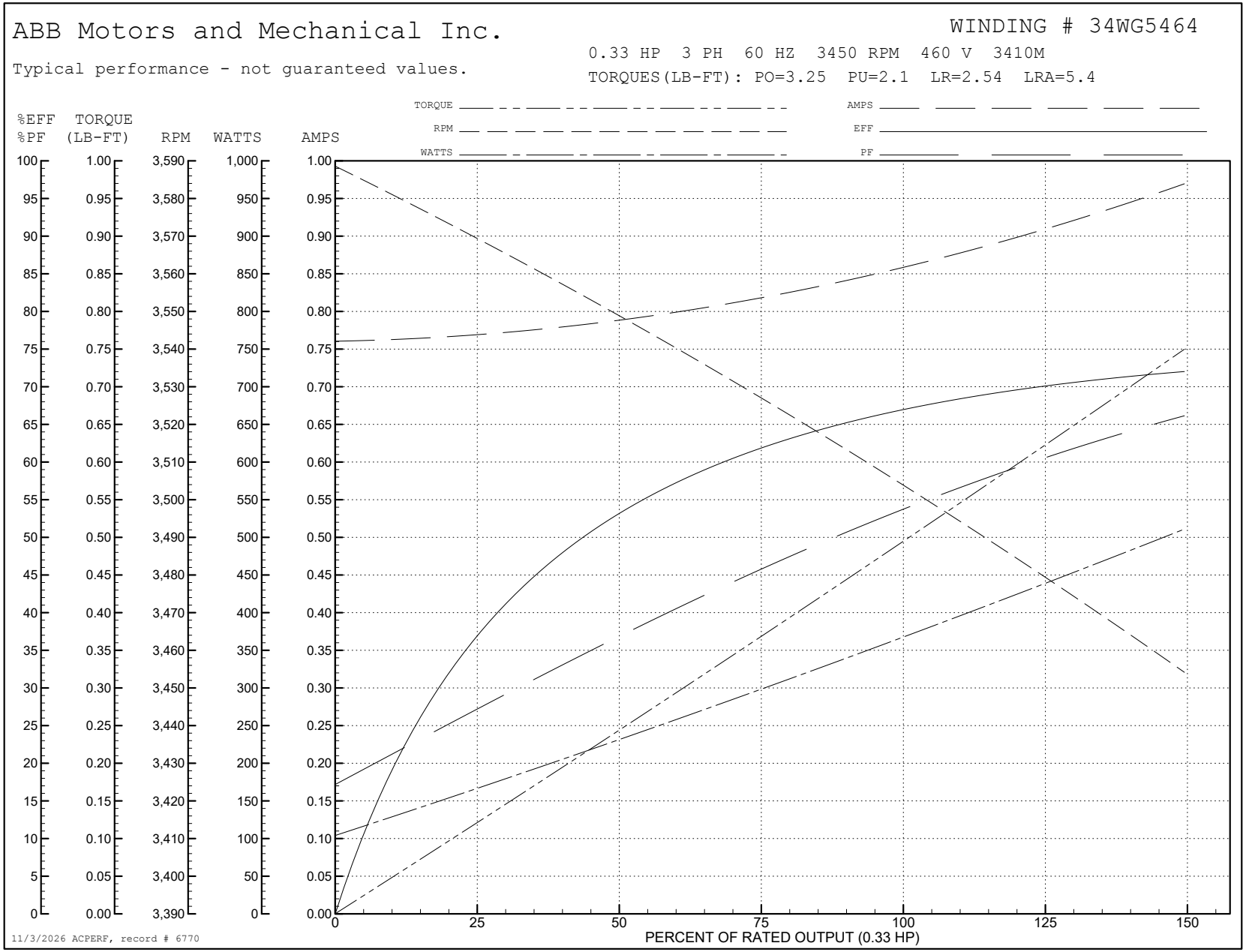
**AC Induction Motor Performance Data**
Record # 6770
Typical performance - not guaranteed values

| **Winding:** 34WG5464-R001 | **Type:** 3410M | **Enclosure:** OPEN |
|---|---|---|

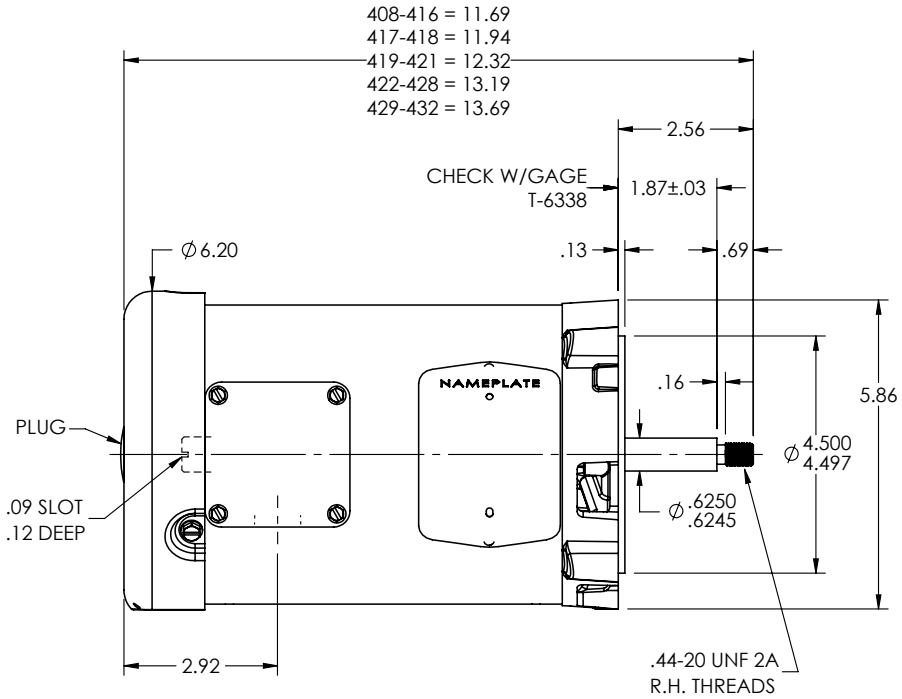
| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .33 | **Full Load Torque** | 0.5 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.6/.8 | **Breakdown Torque** | 3.25 LB-FT |
| **R.P.M.** | | | 3450 | **Pull-up Torque** | 2.1 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 2.54 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | P | **Starting Current** | 5.4 A |
| **Service Factor (S.F.)** | | | 1.75 | **No-load Current** | 0.76 A |
| **NEMA Nom. Eff.** | 62 | **Power Factor** | 61 | **Line-line Res. @ 25ºC** | 38.5 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 14°C |
| **S.F. Amps** | | | 2.2/1.1 | **Temp. Rise @ S.F. Load** | 18°C |

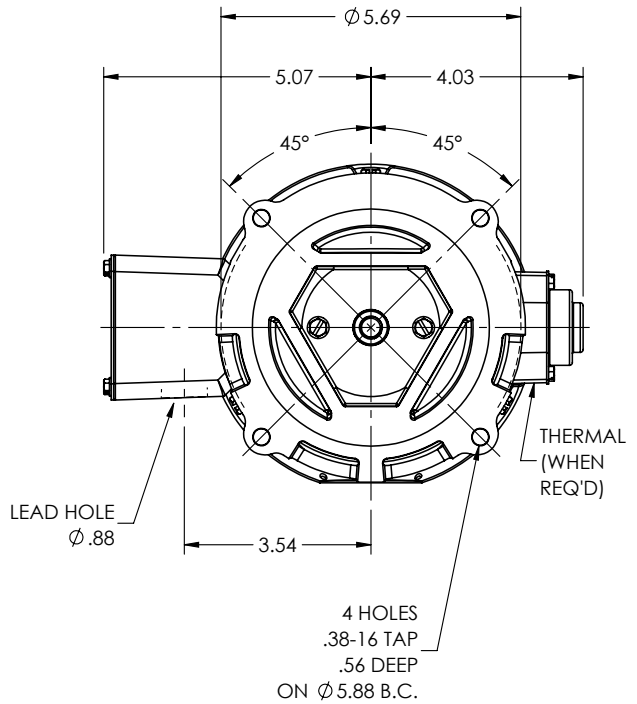
**Load Characteristics 460 V, 60 Hz, 0.33 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 27 | 36 | 45 | 53 | 60 | 66 | 74 |
| **Efficiency** | 37 | 54 | 62 | 67.5 | 70 | 72 | 75 |
| **Speed** | 3568 | 3548 | 3526 | 3503 | 3479 | 3454 | 3431 |
| **Line amperes** | 0.77 | 0.79 | 0.82 | 0.86 | 0.91 | 0.97 | 1.01 |


ABB Motors and Mechanical Inc.
WINDING # 34WG5464
0.33 HP 3 PH 60 HZ 3450 RPM 460 V 3410M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=3.25 PU=2.1 LR=2.54 LRA=5.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/3/2026 ACPERF, record # 6770

34LYF038




34LYF038

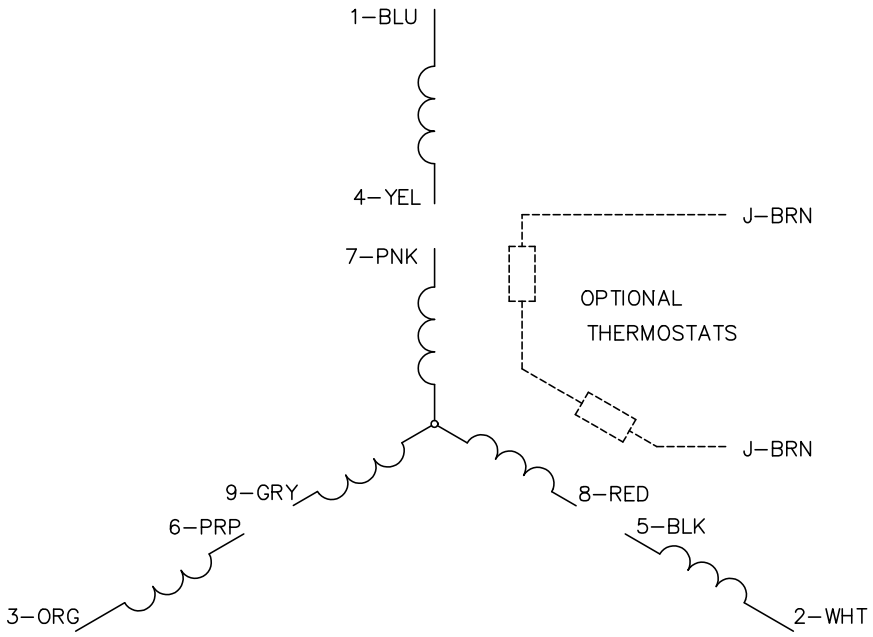
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

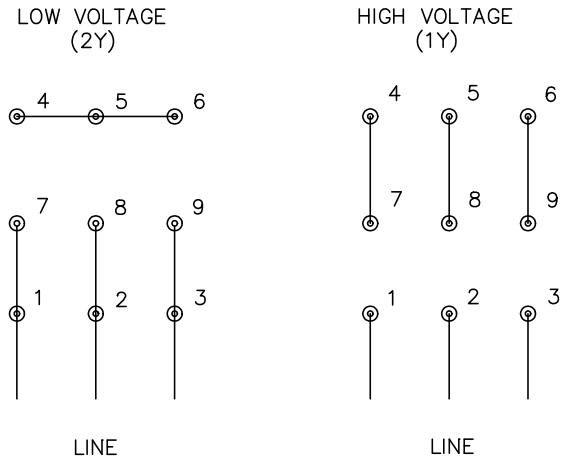
| | | | |
|---|---|---|---|
| REV. DESC: CHG'D BAND TO 34SB3981, SHAFT TO 34SH3C22 | | | |
| REV: L | VERSION: 04 | REVISED: 08:37:38 07/28/2026 | TDR: 000001281747 |
| 34LYF038 | MODEL NO. 34LYF038 | | REF: - |
| | BY: ENJEFD0 | | |

BALDOR - RELIANCE®

STD VERT 56J OPEN 34M W/DRIP CVR

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 |