ABB BALDOR RELIANCE

# Customer information packet

## AOM3454

.25HP, 1735RPM, 3PH, 60HZ, 48, 3410M, TEAO, F1
Class - None
Division - Not Applicable

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11/3/2026 2:25:00 AM

## Specifications

| | |
|---|---|
| **Enclosure** | TEAO |
| **Frame** | 48 |
| **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** | .250 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** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | .600 A @ 460.0 V |
| | 1.100 A @ 208.0 V |
| | 1.200 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 62.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 0.6 a |

## Part Detail

| | |
|---|---|
| **Revision** | E |
| **Type** | AC |
| **Mech. spec.** | 34K099 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGR713 |
| **Layout** | 34LYK099 |
| **Eff. date** | 03-12-2026 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 36" LONG Y |
| **Proprietary** | False |
| **Created date** | 02-05-2021 |

| | |
|---|---|
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **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** | 4 |
| **Overall Length** | 9.63 IN |
| **Power Factor** | 63 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.500 IN |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1735 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**

| NP1256L | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | AOM3454 | | | | | | | | |
| **SPEC.** | 34K099R713 | | | | | | | | |
| **HP** | .25 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMP** | 1.2/.6 | | | | | | | | |
| **RPM** | 1735 | | | | | | | | |
| **FRAME** | 48 | **HZ** | 60 | | | **PH** | 3 | | |
| **SER.F.** | 1.00 | **CODE** | L | **DES** | B | **CLASS** | B | | |
| **NEMA-NOM-EFF** | 62 | **PF** | 63 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEAO | **SN** | | | | | | | |
| | 800 FPM AT 44 CFM | | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 34-3900T | C-FACE KIT | A8 |

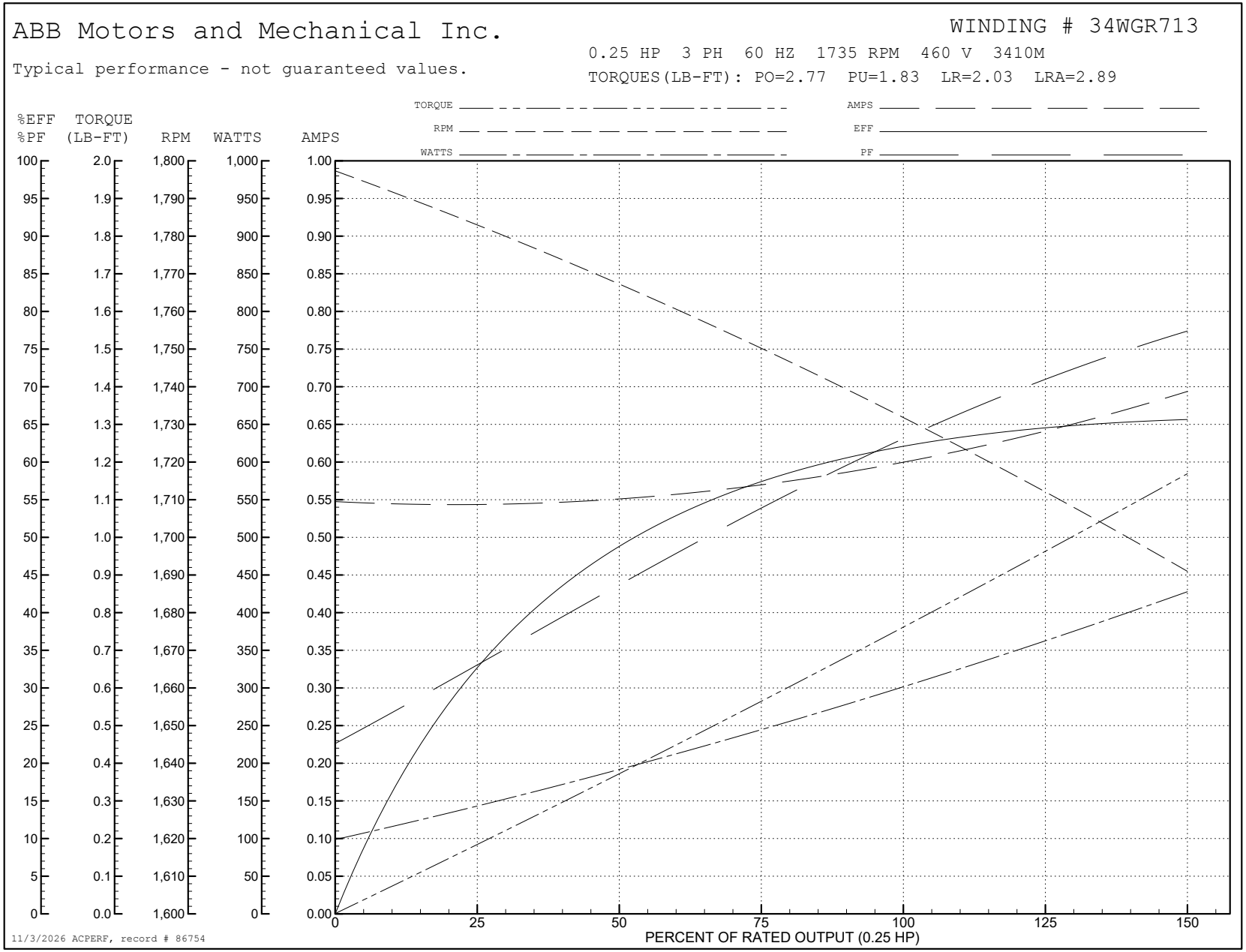
**AC Induction Motor Performance Data**
Record # 86754
Preliminary Data Sheet

| **Winding:** 34WGR713-R003 | **Type:** 3410M | **Enclosure:** TEFC |
|---|---|---|

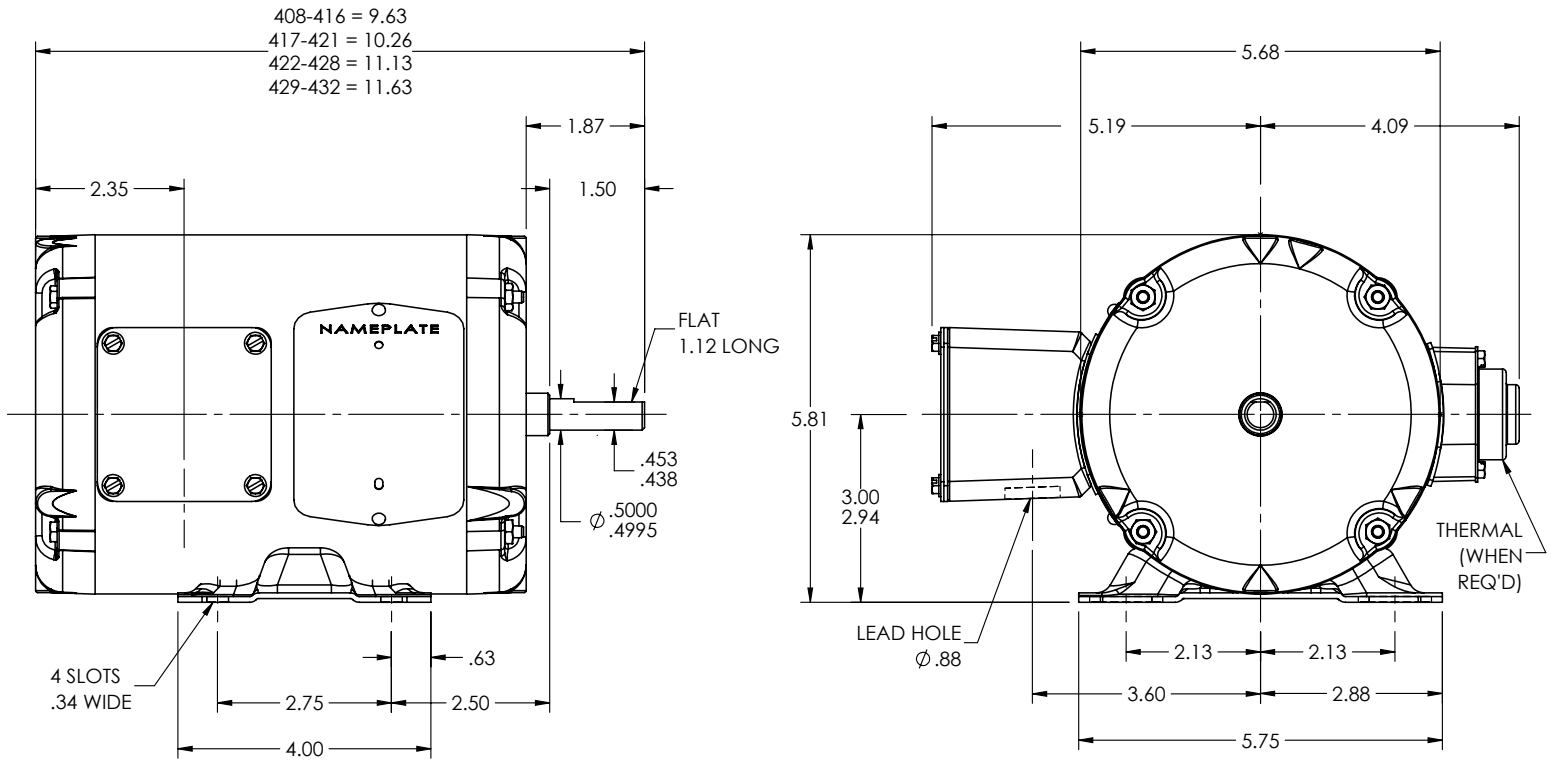
| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 0.25 | **Full Load Torque** | 0.76 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.2/0.6 | **Breakdown Torque** | 2.77 LB-FT |
| **R.P.M.** | | | 1735 | **Pull-up Torque** | 1.83 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 2.03 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | L | **Starting Current** | 2.89 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 0.545 A |
| **NEMA Nom. Eff.** | 63.4 | **Power Factor** | 63 | **Line-line Res. @ 25ºC** | 98.9 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 57°C |
| | | | | **Locked-rotor Power Factor** | 84.1 |
| | | | | **Rotor inertia** | 0.0238 lb-ft² |

**Load Characteristics 460 V, 60 Hz, 0.25 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 33 | 43 | 54 | 63 | 71 | 78 |
| **Efficiency** | 34.9 | 50.2 | 58.6 | 63.4 | 65.6 | 66.1 |
| **Speed** | 1781 | 1767 | 1751 | 1733 | 1713 | 1690 |
| **Line amperes** | 0.547 | 0.552 | 0.568 | 0.598 | 0.64 | 0.695 |


ABB Motors and Mechanical Inc.
WINDING # 34WGR713
Typical performance - not guaranteed values.
0.25 HP 3 PH 60 HZ 1735 RPM 460 V 3410M
TORQUES(LB-FT): PO=2.77 PU=1.83 LR=2.03 LRA=2.89
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
2.0 1.9 1.8 1.7 1.6 1.5 1.4 1.3 1.2 1.1 1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0
1,800 1,790 1,780 1,770 1,760 1,750 1,740 1,730 1,720 1,710 1,700 1,690 1,680 1,670 1,660 1,650 1,640 1,630 1,620 1,610 1,600
1,000 950 900 850 800 750 700 650 600 550 500 450 400 350 300 250 200 150 100 50 0
1.00 0.95 0.90 0.85 0.80 0.75 0.70 0.65 0.60 0.55 0.50 0.45 0.40 0.35 0.30 0.25 0.20 0.15 0.10 0.05 0.00
0 25 50 75 100 125 150
PERCENT OF RATED OUTPUT (0.25 HP)
11/3/2026 ACPERF, record # 86754

34LYK099

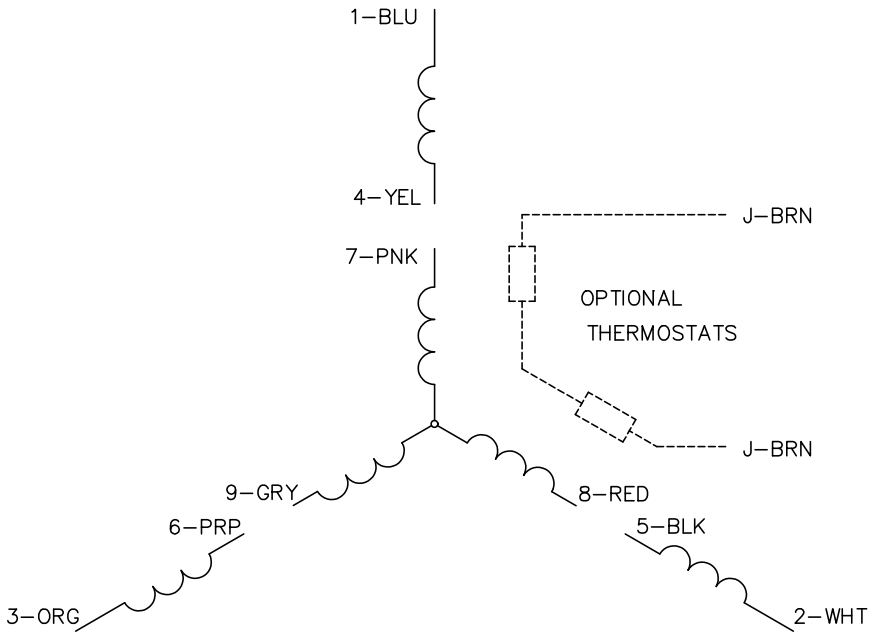


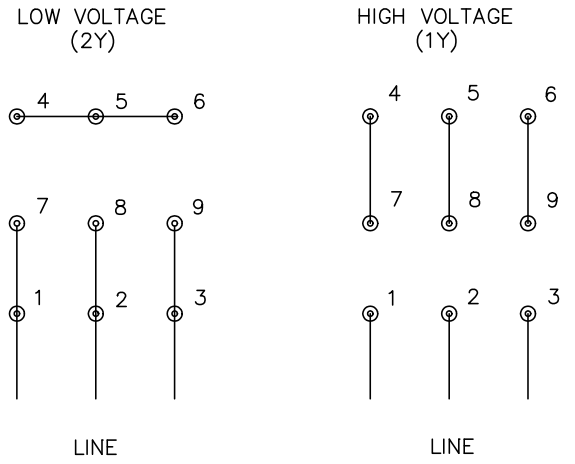

34LYK099

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

| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO SOLIDWORKS - REV F | | | BALDOR - RELIANCE® |
| REV: G | VERSION: 02 | REVISED: 11:36:30 01/03/2023 | TDR: 000001201165 |
| 34LYK099 | MODEL NO. 34LYK099 | | REF: - |
| | BY: ENFRAJ0 | | STD HORZ MODEL 34M NEMA 48 TEAO |

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 |