ABB BALDOR RELIANCE

# Customer information packet

KM3454

.25HP, 1735RPM, 3PH, 60HZ, 56C, 3410M, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56C |
| **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** | C UR US |
| **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** | .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 |
| **Insulation Class** | B |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 34A063 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGR713 |
| **Layout** | 34LYA063 |
| **Eff. date** | 02-10-2025 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#18 |
| **Proprietary** | False |
| **Created date** | 11-20-2020 |

| | |
|---|---|
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | 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** | 11.35 IN |
| **Power Factor** | 63 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.35 |
| **Shaft Diameter** | 0.625 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.** | KM3454 | | | | | | | | |
| **SPEC.** | 34A063R713 | | | | | | | | |
| **HP** | .25 | | | | | | | | |
| **VOLTS** | 230/460 | | | | | | | | |
| **AMP** | 1.2/.6 | | | | | | | | |
| **RPM** | 1735 | | | | | | | | |
| **FRAME** | 56C | **HZ** | 60 | | | **PH** | 3 | | |
| **SER.F.** | 1.35 | **CODE** | L | **DES** | B | **CLASS** | B | | |
| **NEMA-NOM-EFF** | 62 | **PF** | 63 | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **CC** | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | |
| | SFA 1.32/0.66A | | | | | | | | |

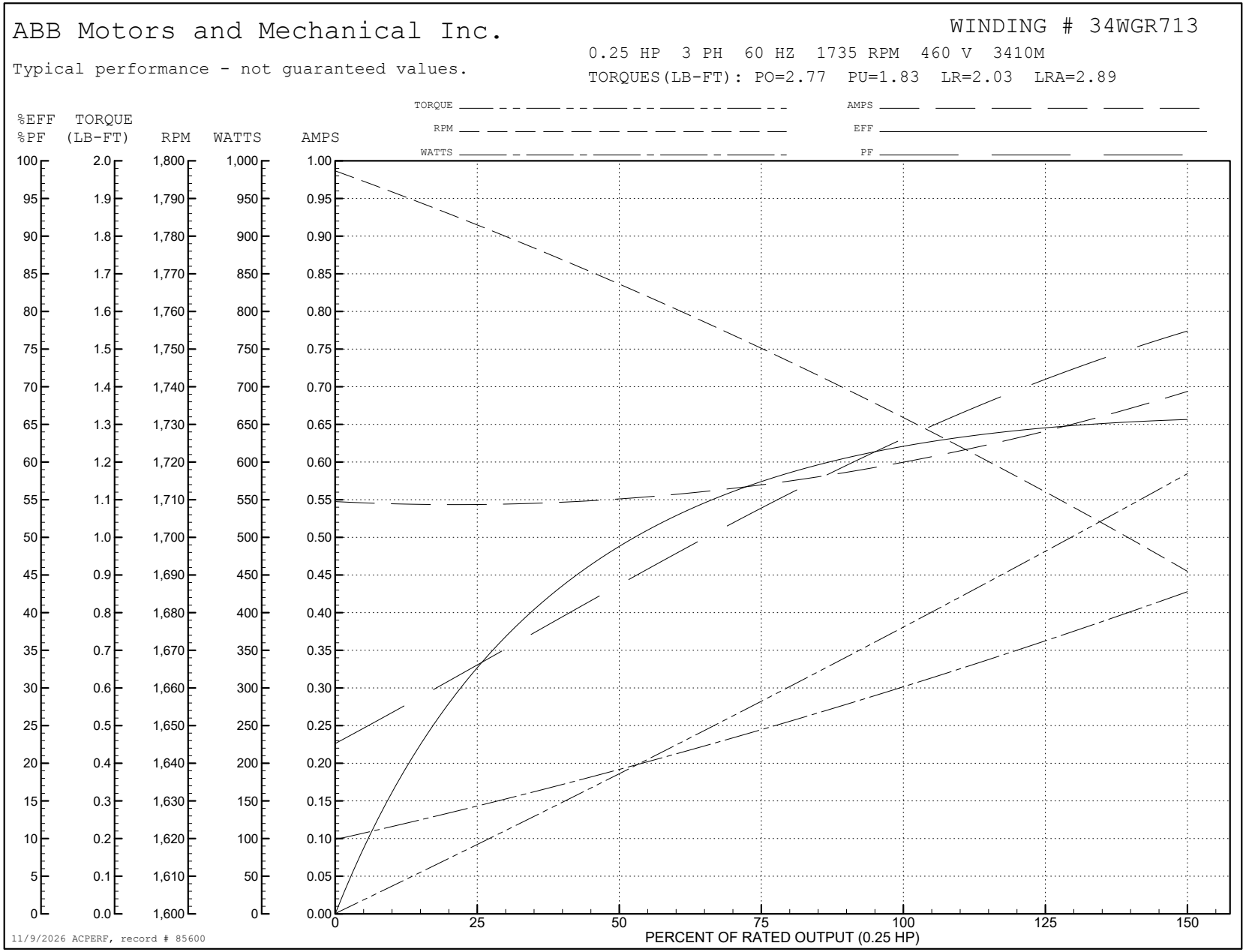
**AC Induction Motor Performance Data**
Record # 85600
Preliminary Data Sheet

| **Winding:** 34WGR713-R001 | **Type:** 3410M | **Enclosure:** TEFC |
|---|---|---|

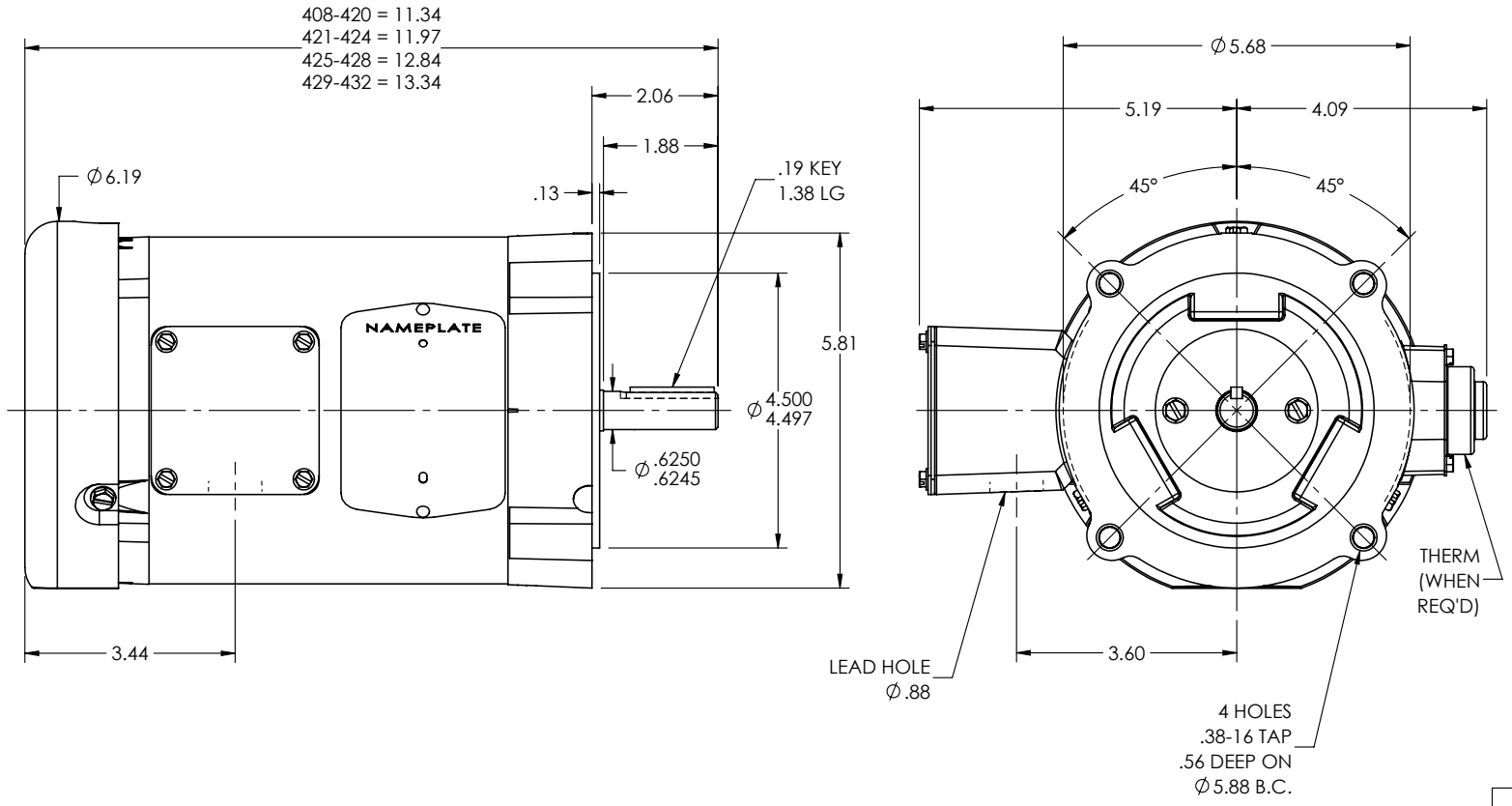
| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 0.25 | **Full Load Torque** | 0.76 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 1.2/0.6 | **Breakdown Torque** | 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.)** | | | 1.35 | **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 |
| **S.F. Amps** | | | 1.32/0.66 | **Temp. Rise @ S.F. Load** | 70°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** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 33 | 43 | 54 | 63 | 71 | 78 | 75 |
| **Efficiency** | 34.9 | 50.2 | 58.6 | 63.4 | 65.6 | 66.1 | 65.8 |
| **Speed** | 1781 | 1767 | 1751 | 1733 | 1713 | 1690 | 1697 |
| **Line amperes** | 0.547 | 0.552 | 0.568 | 0.598 | 0.64 | 0.695 | 0.662 |


ABB Motors and Mechanical Inc.
WINDING # 34WGR713
0.25 HP 3 PH 60 HZ 1735 RPM 460 V 3410M
Typical performance - not guaranteed values.
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
PERCENT OF RATED OUTPUT (0.25 HP)
11/9/2026 ACPERF, record # 85600

34LYA063




34LYA063

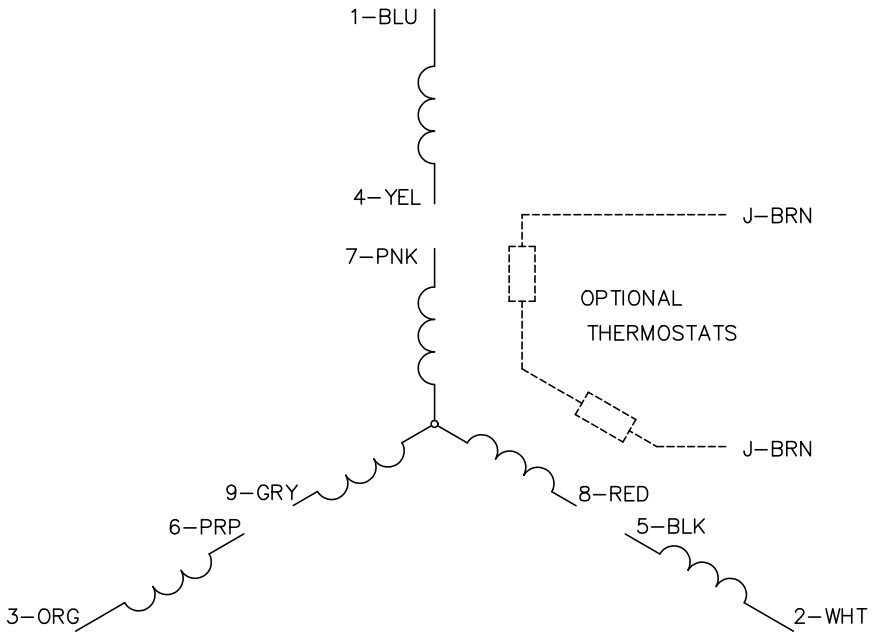
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

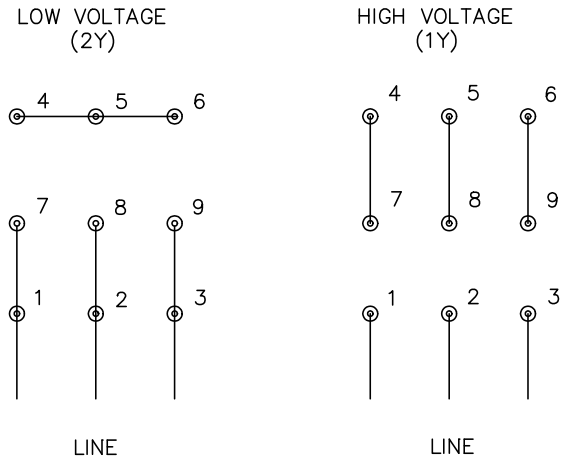
| | | | |
|---|---|---|---|
| REV. DESC: CLEAN UP DIMENSIONING | | | |
| REV: P | VERSION: 05 | REVISED: 08:51:08 10/31/2024 | TDR: 000001243684 |
| 34LYA063 | MODEL NO. 34LYA063 | | REF: - |
| | BY: ENJEFD0 | | |

BALDOR - RELIANCE®

STD VERT 34M NEMA 56C TEFC

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 |