ABB BALDOR RELIANCE

# Customer information packet

## L3501-50

.33/KW .25, 1425RPM, 1PH, 50HZ, 56, 3418LC, TE
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 50.00 Hz |
| **Haz Area Class and Group** | None |
| **Haz Area Division** | Not Applicable |
| **Motor Letter Type** | Cap Start, Cap Run |
| **Output @ Frequency** | .250 KW @ 50 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1500 RPM @ 50 HZ |
| **Voltage @ Frequency** | 110.0 V @ 50 HZ |
| | 220.0 V @ 50 HZ |
| **Agency Approvals** | C UR US |
| | CE |
| | CURUS |
| | UKCA |
| | WEEE |
| **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** | 4.000 A @ 110.0 V |
| | 2.000 A @ 220.0 V |
| **Design Code** | - |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 68.5 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | D |
| **Type** | AC |
| **Mech. spec.** | 34G375 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WGR754 |
| **Layout** | 34LYG375 |
| **Eff. date** | 10-25-2024 |
| **CD Diagram** | CD0055 |
| **Poles** | 04 |
| **Leads** | 6#18 |
| **Proprietary** | False |
| **Created date** | 04-26-2023 |

| | |
|---|---|
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 2.0 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3418LC |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 11.97 IN |
| **Power Factor** | 83 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **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** | 1425 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**

| NP1372L | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L3501-50 | | | | | | | |
| **SPEC.** | 34G375R754G1 | | | | | | | |
| **HP** | .33/KW .25 | | | | | | | |
| **VOLTS** | 110/220 | | | | | | | |
| **AMP** | 4/2 | | | | | | | |
| **R.P.M. (1/MIN)** | 1425 | | | | | | | |
| **FRAME** | 56 | **HZ** | 50 | | **PH** | 1 | | |
| **SER.F.** | 1.35 | **CODE** | L | **DES** | - | **CL** | F | |
| **NEMA-NOM-EFF** | 68.5 | **PF** | 83 | | | | | |
| **RATING** | 40C AMB-S1 CONT | | | | | | | |
| **CC** | | | IP44 KG12 IC411 | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | |
| | SFA 5/2.5 | | | | | | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| 34-171 | C FACE KIT | A8 |

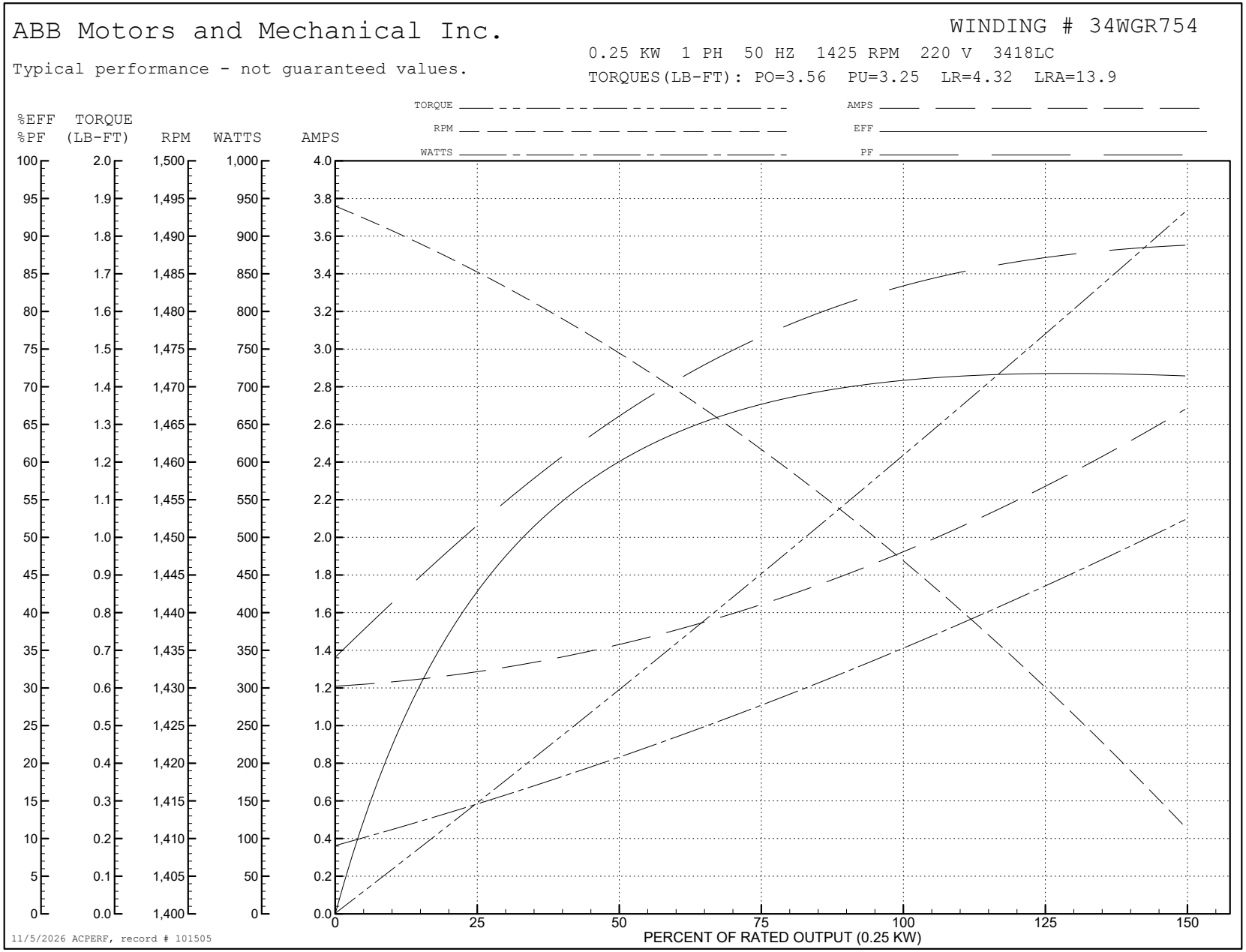
**AC Induction Motor Performance Data**
Record # 101505
Typical performance - not guaranteed values

**Winding:** 34WGR754-R001 **Type:** 3418LC **Enclosure:** TEFC

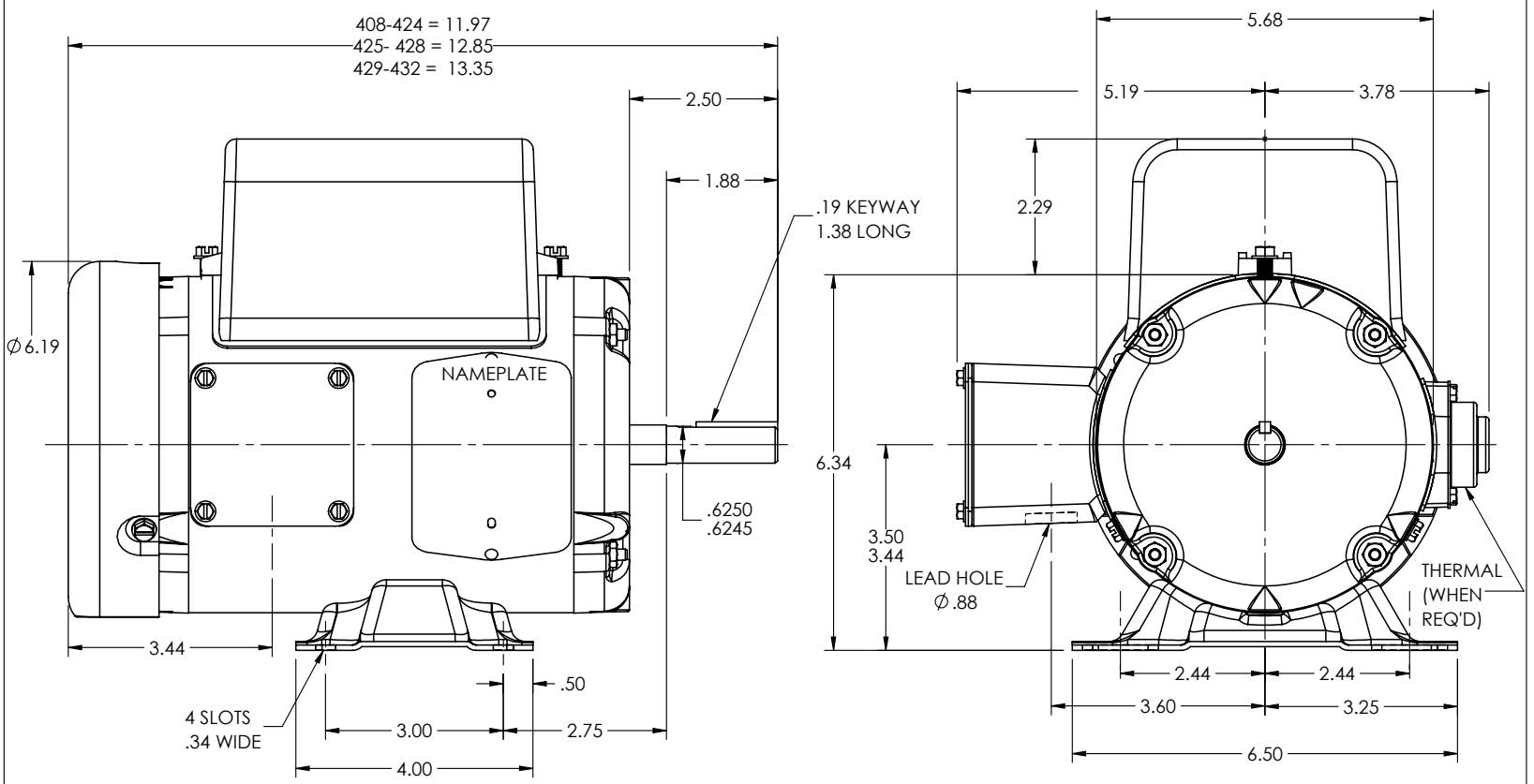
| Nameplate Data | | | | 220 V, 50 Hz: High Voltage Connection | |
|---|---|---|---|---|---|
| **Rated Output (KW)** | | | .25 | **Full Load Torque** | 1.223 LB-FT |
| **Volts** | | | 110/220 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 4/2 | **Breakdown Torque** | 3.56 LB-FT |
| **R.P.M.** | | | 1425 | **Pull-up Torque** | 3.25 LB-FT |
| **Hz** | 50 | **Phase** | 1 | **Locked-rotor Torque** | 4.32 LB-FT |
| **NEMA Design Code** | - | **KVA Code** | L | **Starting Current** | 13.9 A |
| **Service Factor (S.F.)** | | | 1.35 | **No-load Current** | 1.22 A |
| **NEMA Nom. Eff.** | 68.5 | **Power Factor** | 83 | **Line-line Res. @ 25ºC** | 7.0364 Ω A Ph<br>4.2698 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 40°C |
| **S.F. Amps** | | | 5/2.5 | **Temp. Rise @ S.F. Load** | 52°C |

**Load Characteristics 220 V, 50 Hz, 0.25 KW**

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 53 | 67 | 77 | 83 | 87 | 89 | 88 |
| **Efficiency** | 43.3 | 60.3 | 67.7 | 71.1 | 71.8 | 71.4 | 71.6 |
| **Speed** | 1485.2 | 1474.2 | 1461.1 | 1446.8 | 1430.3 | 1411.4 | 1423 |
| **Line amperes** | 1.28 | 1.42 | 1.65 | 1.94 | 2.28 | 2.67 | 2.44 |


ABB Motors and Mechanical Inc.
WINDING # 34WGR754
Typical performance - not guaranteed values.
0.25 KW 1 PH 50 HZ 1425 RPM 220 V 3418LC
TORQUES(LB-FT): PO=3.56 PU=3.25 LR=4.32 LRA=13.9
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.25 KW)
11/5/2026 ACPERF, record # 101505

34LYG375

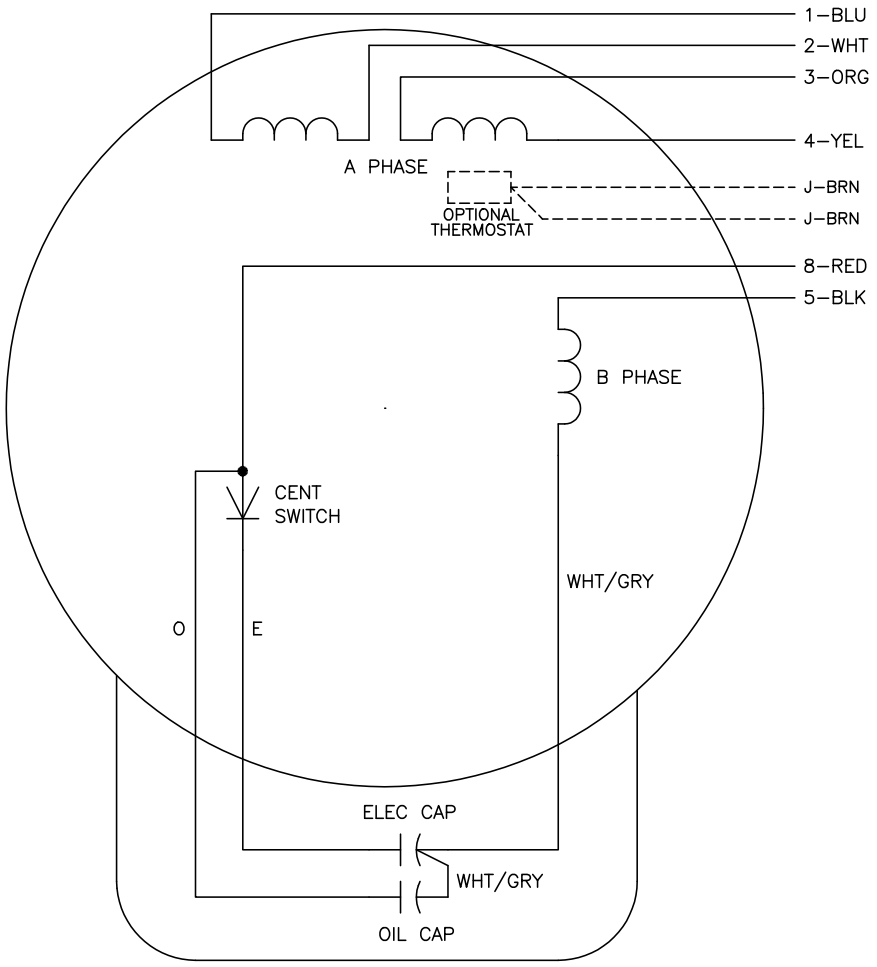



34LYG375

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

| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO SOLIDWORKS | | | BALDOR - RELIANCE® |
| REV: E | VERSION: 04 | REVISED: 03:58:39 08/09/2022 | TDR: 000001194274 |
| 34LYG375 | MODEL NO. 34LYG375 | | REF: - |
| | BY: ENFRAJ0 | | HORZ 34LC NEMA 56 TEFC |

CD0055




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | – |
| LOW OPP | 1,3,5 | 2,4,8 | – |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0055

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | BY: JLP | REVISED: 04/08/99 1:17 | TDR: 0178636 |
| CD0055 | | FILE: AAA00007414 | MDL: – |
| | | MTL: – | TYPE LC, DV, REV, 6 LEADS |