ABB BALDOR RELIANCE

# Customer information packet

## L3406M

.33HP, 1725RPM, 1PH, 60HZ, 48, 3414L, TEFC, F1
Class - None
Division - Not Applicable

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## Specifications

| | |
|---|---|
| **Enclosure** | TEFC |
| **Frame** | 48 |
| **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** | .330 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| **Agency Approvals** | C UR US |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 6.000 A @ 115.0 V |
| | 3.600 A @ 208.0 V |
| | 3.000 A @ 230.0 V |
| **Design Code** | N |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 60.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.0 a |

## Part Detail

| | |
|---|---|
| **Revision** | AE |
| **Type** | AC |
| **Mech. spec.** | 34C051 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG5598 |
| **Layout** | 34LYC051 |
| **Eff. date** | 12-30-2024 |
| **CD Diagram** | CD0008 |
| **Poles** | 04 |
| **Leads** | 7#18 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **IP Rating** | NONE |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 7 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3414L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 10.72 IN |
| **Power Factor** | 60 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.35 |
| **Shaft Diameter** | 0.500 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 1725 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** | Manual Thermal Overload |
| **Winding Thermal 1 Location** | SK |

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

**Nameplate**

| NP1257L | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **CAT.NO.** | L3406M | | | | | | | | | |
| **SPEC.** | 34C51-5598 | | | | | | | | | |
| **HP** | .33 | | | | | | | | | |
| **VOLTS** | 115/230 | | | | | | | | | |
| **AMP** | 6/3 | | | | | | | | | |
| **RPM** | 1725 | | | | | | | | | |
| **FRAME** | 48 | | **HZ** | 60 | | **PH** | 1 | | | |
| **SER.F.** | 1.35 | **CODE** | L | **DES** | N | **CL** | B | | | |
| **NEMA-NOM-EFF** | 60 | **PF** | 60 | | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | | |
| **CC** | | | | | | | | | | |
| **DE** | 6203 | **ODE** | 6203 | | | | | | | |
| **ENCL** | TEFC | **SN** | | | | | | | | |
| | SFA 6.8/3.4 | | | | | | | | | |

**Accessories**

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

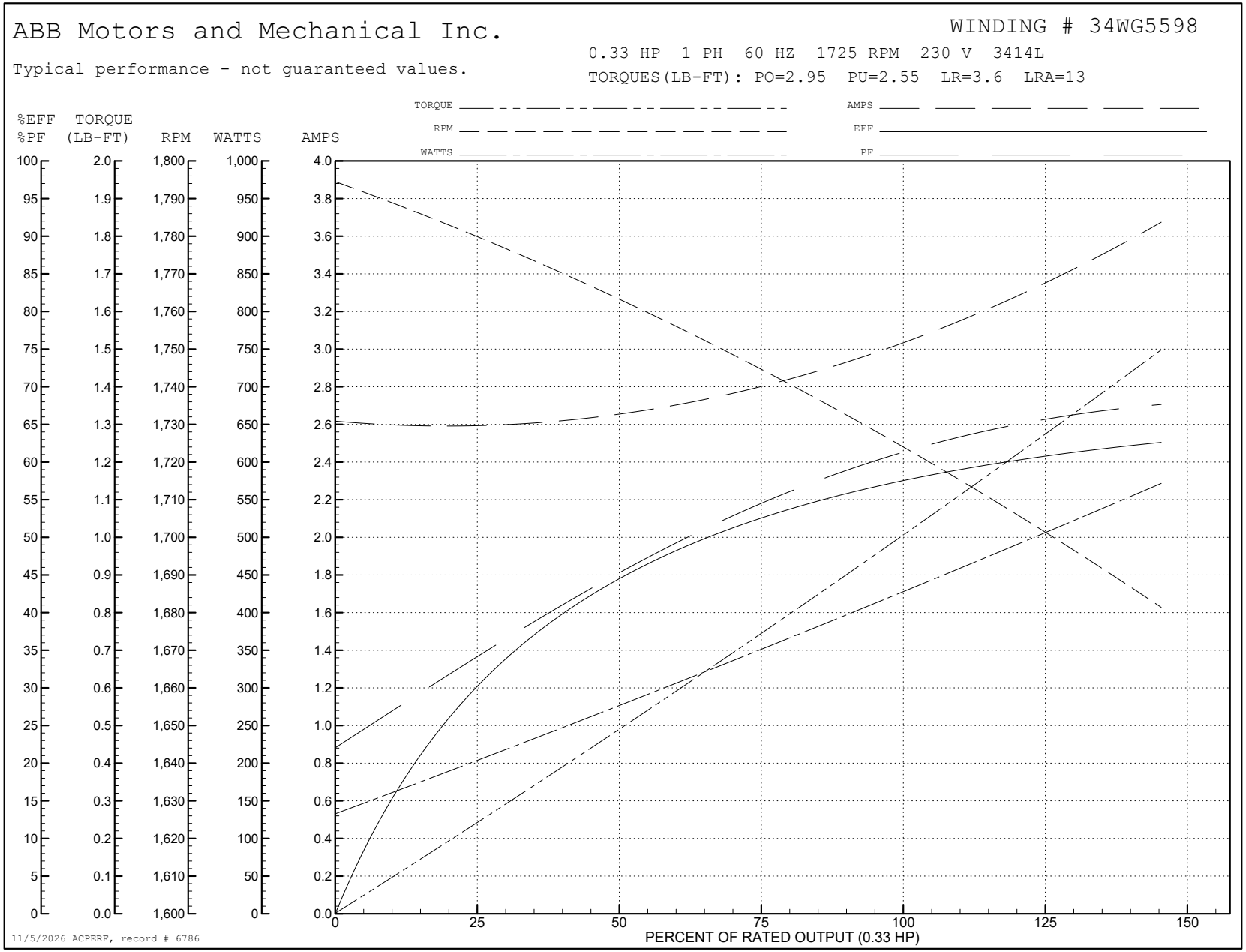
**AC Induction Motor Performance Data**
Record # 6786
Typical performance - not guaranteed values

| **Winding:** 34WG5598-R001 | **Type:** 3414L | **Enclosure:** TEFC |
|---|---|---|

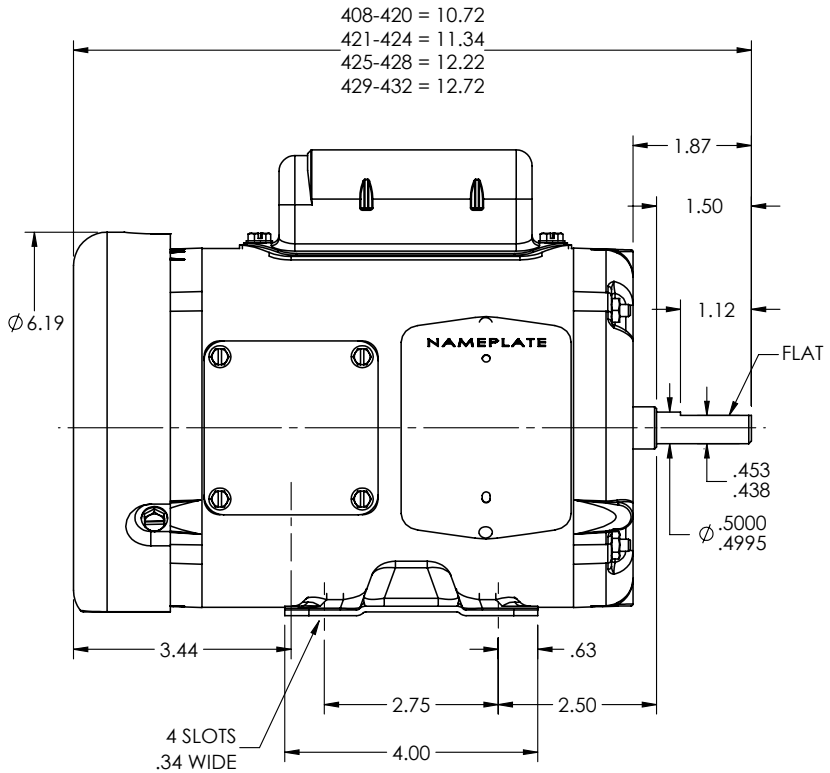
| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .33 | **Full Load Torque** | 1 LB-FT |
| **Volts** | | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 6/3 | **Breakdown Torque** | 2.95 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 2.55 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 3.6 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | L | **Starting Current** | 13 A |
| **Service Factor (S.F.)** | | | 1.35 | **No-load Current** | 2.6 A |
| **NEMA Nom. Eff.** | 60 | **Power Factor** | 60 | **Line-line Res. @ 25ºC** | 6.32 Ω A Ph<br>4.93 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 59°C |
| **S.F. Amps** | | | 6.8/3.4 | **Temp. Rise @ S.F. Load** | 73°C |

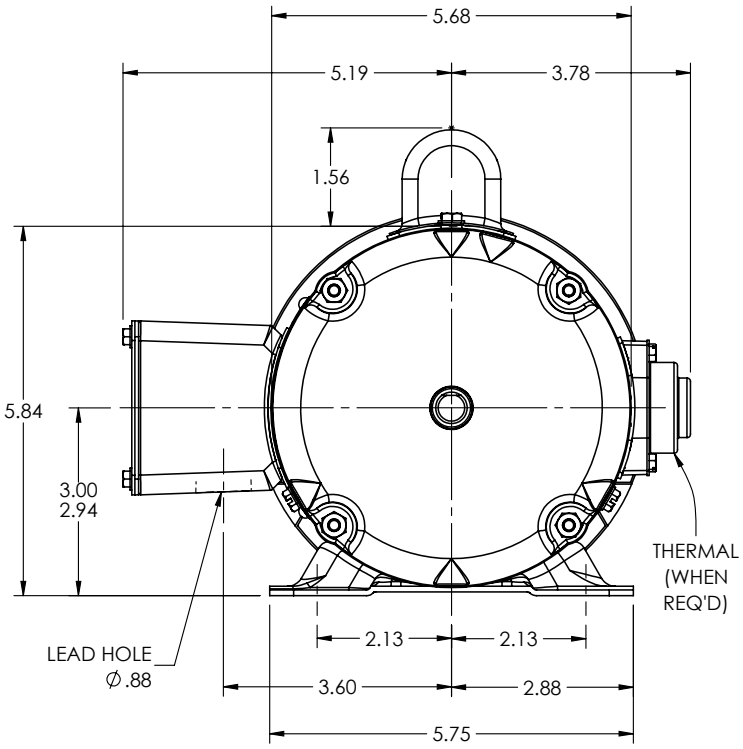
**Load Characteristics 230 V, 60 Hz, 0.33 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 31 | 41 | 52 | 60 | 67 | 73 | 71 |
| **Efficiency** | 33 | 41 | 52 | 60 | 61.5 | 61.5 | 61.5 |
| **Speed** | 1780 | 1760 | 1745 | 1725 | 1705 | 1680 | 1690 |
| **Line amperes** | 2.6 | 2.7 | 2.8 | 3 | 3.3 | 3.7 | 3.4 |


ABB Motors and Mechanical Inc.
WINDING # 34WG5598
Typical performance - not guaranteed values.
0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L
TORQUES(LB-FT): PO=2.95 PU=2.55 LR=3.6 LRA=13
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/5/2026 ACPERF, record # 6786

34LYC051




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

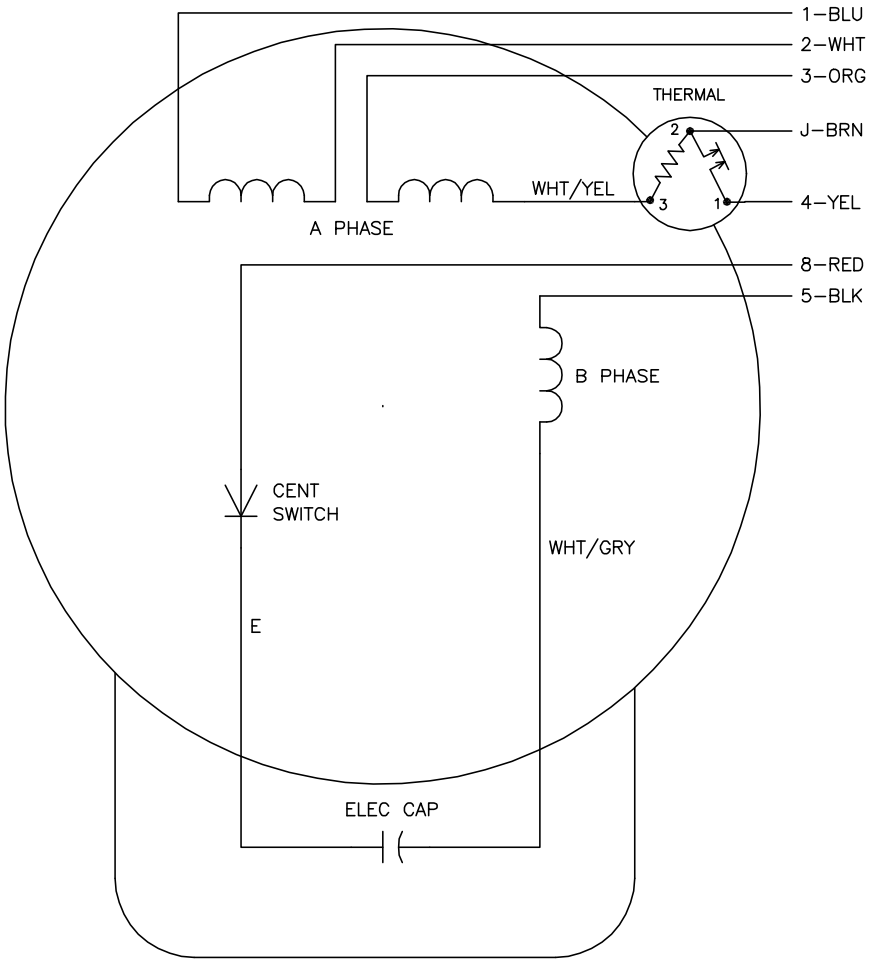
| | | | |
|---|---|---|---|
| REV. DESC: UPDATE STACK RANGE | | | |
| REV: N | VERSION: 06 | REVISED: 04:36:54 05/06/2024 | TDR: 000001231525 |
| 34LYC051 | MODEL NO. 34LYC051 | | REF: - |
| | BY: ENJEFD0 | | |

BALDOR - RELIANCE®

STD HORZ MODEL 34L NEMA 48 TEFC

34LYC051

CD0008




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

NOTES:

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

CD0008

| | | | |
|---|---|---|---|
| REV. DESC: REMOVE 2—TERMINAL THERMAL DETAIL, SEE CD0008A02 | | | BALDOR ELECTRIC Co. |
| REV. LTR: F | VERSION: 01 | TDR: 000000360649 | |
| CD0008 | FILE: \AAA\00007\408 | REVISED: 10:56:54 04/18/2005 | TYPE L, DV, REV, THERMAL, 7 LEADS |
| | MTL: — | BY: ENJOEP0 | |