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# Customer information packet

## VL3501

.33HP, 1725RPM, 1PH, 60HZ, 56C, 3414L, TEFC, F1

Class - None

Division - Not Applicable

## 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              | Cap Start, Induction Run                                    |
| Output @ Frequency             | .330 HP @ 60 HZ                                             |
| Phase                          | 1                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| Agency Approvals               | UR<br>CSA                                                   |
| Ambient Temperature            | 40 °C                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | No Mounting                                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 3.000 A @ 230.0 V<br>3.600 A @ 208.0 V<br>6.000 A @ 115.0 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                                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AQ         |
| Type         | AC         |
| Mech. spec.  | 34C063     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG5507   |
| Layout       | 34LYC063   |
| Eff. date    | 12-30-2024 |
| CD Diagram   | CD0001     |
| Poles        | 04         |
| Leads        | 6#18       |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                               |                     |
|-------------------------------|---------------------|
| High Voltage Full Load Amps   | 3.0 a               |
| Insulation Class              | B                   |
| Inverter Code                 | Not Inverter        |
| KVA Code                      | L                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | Locked Bearing      |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 6 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3414L               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4                   |
| Overall Length                | 11.35 IN            |
| Power Factor                  | 60                  |
| 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 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             | None                |

Winding Thermal 2

None

## Nameplate

| NP1256L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | VL3501       |      |     |      |   |       |    |   |  |
| SPEC.        | 34C63-5507   |      |     |      |   |       |    |   |  |
| HP           | .33          |      |     |      |   |       |    |   |  |
| VOLTS        | 115/230      |      |     |      |   |       |    |   |  |
| AMP          | 6/3          |      |     |      |   |       |    |   |  |
| RPM          | 1725         |      |     |      |   |       |    |   |  |
| FRAME        | 56C          |      | HZ  | 60   |   |       | PH | 1 |  |
| SER.F.       | 1.35         | CODE | L   | DES  | N | CLASS |    | B |  |
| NEMA-NOM-EFF | 60           | PF   | 60  |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6203         |      | ODE | 6203 |   |       |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |       |    |   |  |
|              | SFA 6.8/3.4  |      |     |      |   |       |    |   |  |

**AC Induction Motor Performance Data**

Record # 6774

Typical performance - not guaranteed values

| Winding: 34WG5507-R001 |    |              | Type: 3414L  |                                          | Enclosure: TEFC       |                |                            |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|----------------|----------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>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. @ 25°C |                | 6.32 Ω A Ph<br>4.93 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 67°C           |                            |
| S.F. Amps              |    | 6.8/3.4      |              | Temp. Rise @ S.F. Load                   |                       | 83°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  |

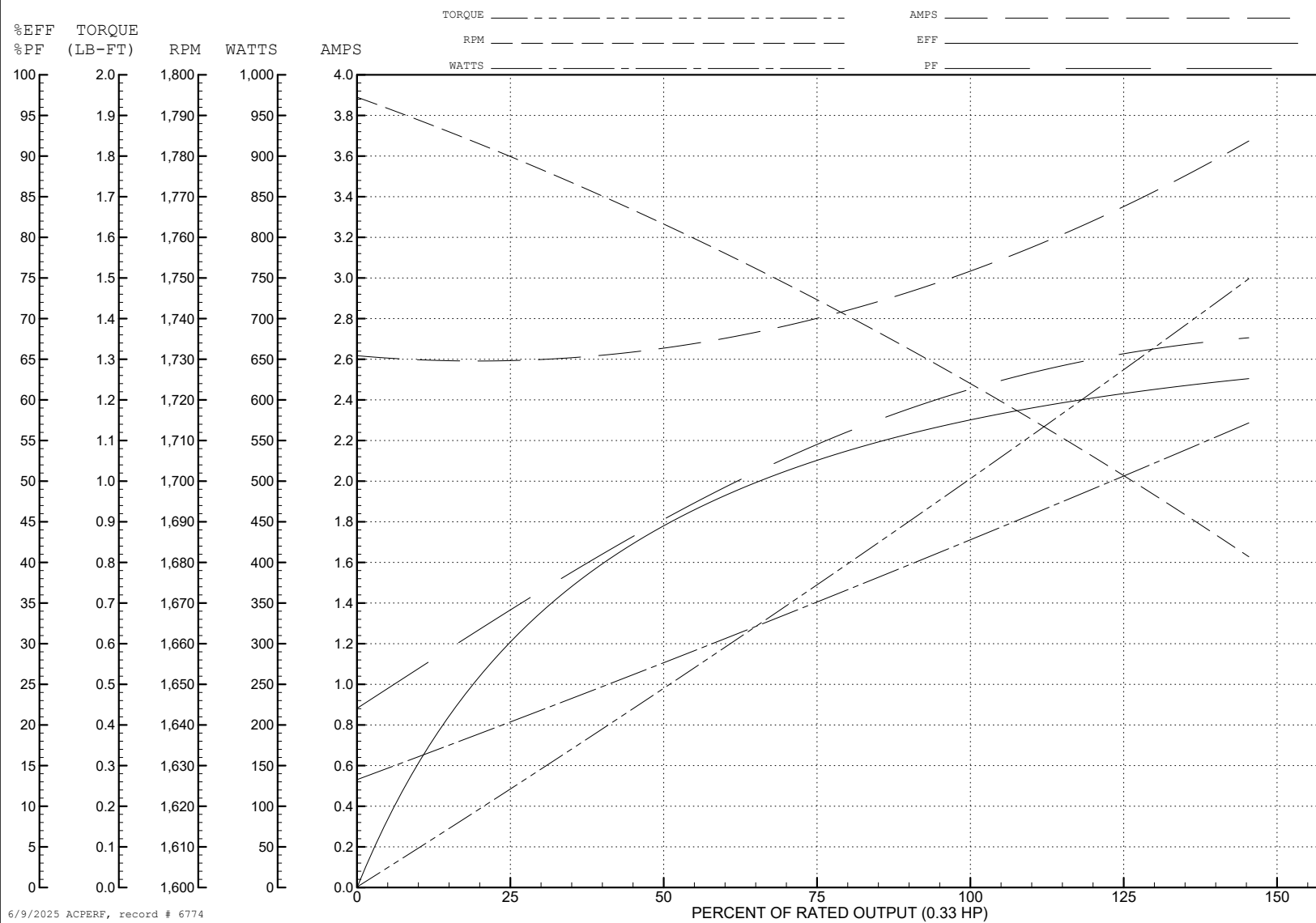
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WINDING # 34WG5507

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



## AC Induction Motor Performance Data

Record # 29314

Typical performance - not guaranteed values

| Winding: 34WG5507-R001 |    |              | Type: 3414L  |                                         | Enclosure: TEFC       |                |                           |
|------------------------|----|--------------|--------------|-----------------------------------------|-----------------------|----------------|---------------------------|
| Nameplate Data         |    |              |              | 115 V, 60 Hz:<br>Low 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      |                | 26 A                      |
| Service Factor (S.F.)  |    | 1.35         |              | No-load Current                         |                       | 5.2 A          |                           |
| NEMA Nom. Eff.         |    | 60           | Power Factor | 60                                      | Line-line Res. @ 25°C |                | 1.5 Ω A Ph<br>4.81 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                 |                       | 68°C           |                           |
| S.F. Amps              |    | 6.8/3.4      |              | Temp. Rise @ S.F. Load                  |                       | 81°C           |                           |

## Load Characteristics 115 V, 60 Hz, 0.33 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 31   | 41   | 52   | 59   | 65   | 67   | 66   |
| Efficiency      | 34   | 49   | 56   | 59.9 | 62   | 63   | 62.4 |
| Speed           | 1783 | 1765 | 1745 | 1730 | 1710 | 1680 | 1698 |
| Line amperes    | 5.2  | 5.4  | 5.6  | 6    | 6.6  | 7.4  | 6.92 |



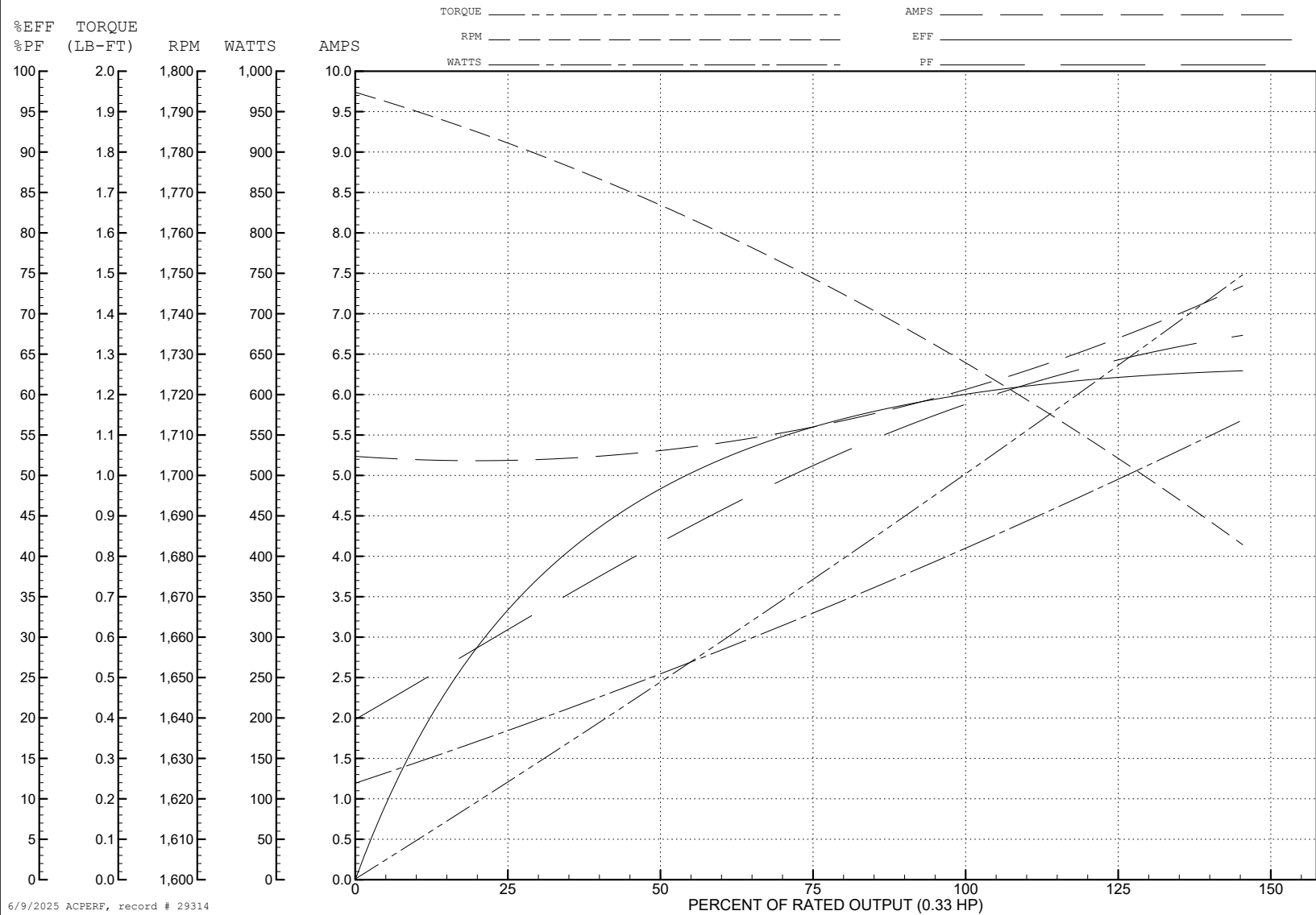
ABB Motors and Mechanical Inc.

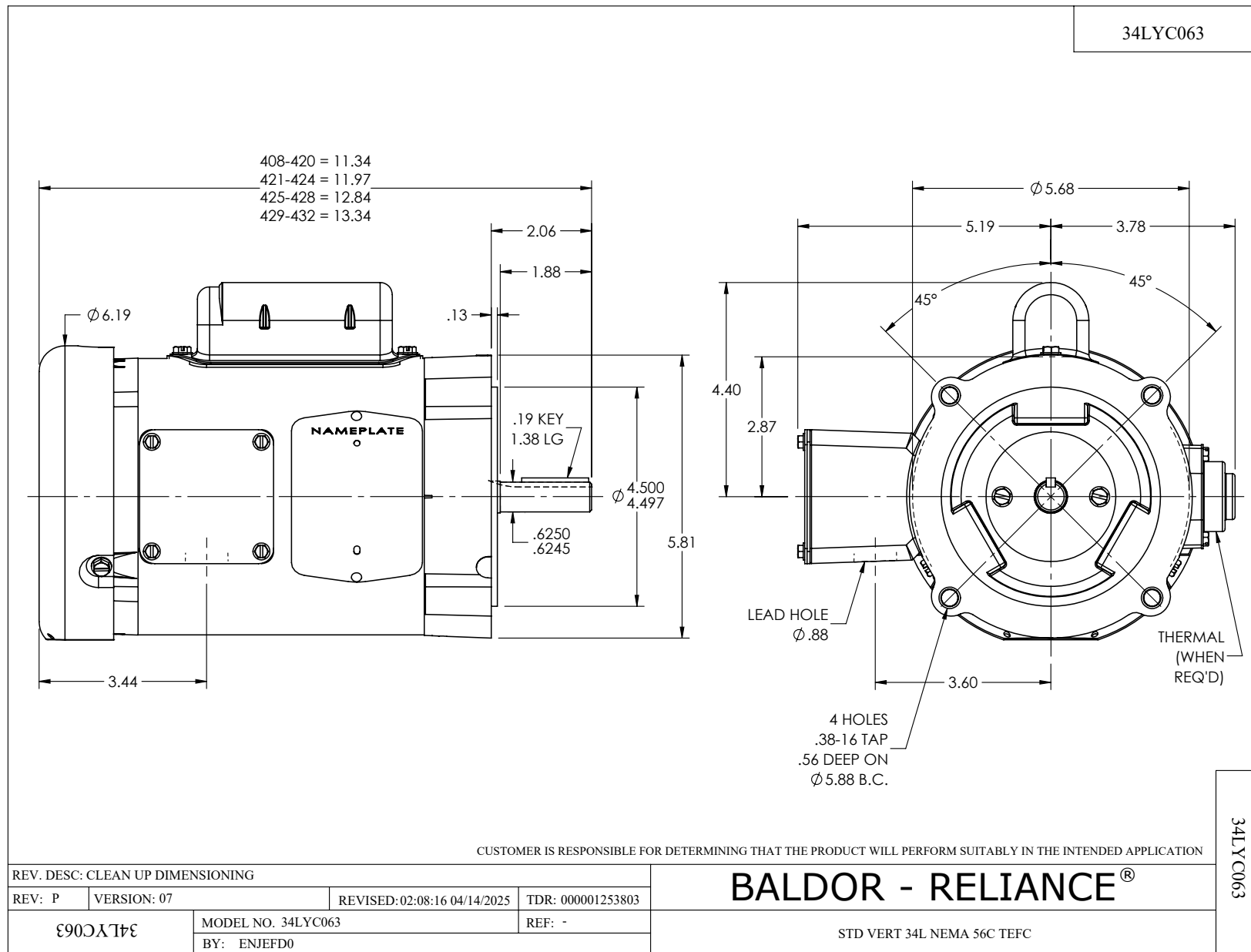
WINDING # 34WG5507

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 115 V 3414L

TORQUES (LB-FT) : PO=2.95 PU=2.55 LR=3.6 LRA=26





CD0001

