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# Customer information packet

## VXL05122A

1HP, 3450RPM, 1PH, 60HZ, 56C, 3524L, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | XPFC                                                          |
| Frame                          | 56C                                                           |
| Frame Material                 | Steel                                                         |
| Frequency                      | 60.00 Hz                                                      |
| Haz Area Class and Group       | CLI GP D; CLII GP F,G                                         |
| Haz Area Division              | Division I                                                    |
| Motor Letter Type              | Cap Start, Induction Run                                      |
| Output @ Frequency             | 1.000 HP @ 60 HZ                                              |
| Phase                          | 1                                                             |
| Synchronous Speed @ Frequency  | 3600 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 115.0 V @ 60 HZ<br>230.0 V @ 60 HZ                            |
| Agency Approvals               | CSA<br>UL                                                     |
| 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              | 12.000 A @ 115.0 V<br>24.900 A @ 208.0 V<br>6.000 A @ 230.0 V |
| Design Code                    | N                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 66.0 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Haz Area Temp Code             | T4                                                            |
| Heater Indicator               | No Heater                                                     |
| High Voltage Full Load Amps    | 6.0 a                                                         |

## Part detail

|              |                              |
|--------------|------------------------------|
| Revision     | C                            |
| Type         | AC                           |
| Mech. spec.  |                              |
| Base         |                              |
| Status       | PRD/A                        |
| Elec. spec.  | 35WG0498                     |
| Layout       | 35LYE371                     |
| Eff. date    | 05-01-2024                   |
| CD Diagram   | CD0008                       |
| Poles        | 02                           |
| Leads        | 4#16 A&J,2#18 B PH,1#14 #4TH |
| Proprietary  | False                        |
| Created date | 03-22-2021                   |

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>Insulation Class</b>           | <b>B</b>                          |
| <b>Inverter Code</b>              | <b>Not Inverter</b>               |
| <b>IP Rating</b>                  | <b>NONE</b>                       |
| <b>KVA Code</b>                   | <b>K</b>                          |
| <b>Lifting Lugs</b>               | <b>No Lifting Lugs</b>            |
| <b>Locked Bearing Indicator</b>   | <b>Locked Bearing</b>             |
| <b>Motor Lead Termination</b>     | <b>Flying Leads</b>               |
| <b>Motor Standards</b>            | <b>NEMA</b>                       |
| <b>Motor Type</b>                 | <b>3524L</b>                      |
| <b>Mounting Arrangement</b>       | <b>F1</b>                         |
| <b>Number of Poles</b>            | <b>2</b>                          |
| <b>Overall Length</b>             | <b>15.15 IN</b>                   |
| <b>Power Factor</b>               | <b>81</b>                         |
| <b>Product Family</b>             | <b>General Purpose</b>            |
| <b>Pulley Face Code</b>           | <b>C-Face</b>                     |
| <b>Rodent Screen</b>              | <b>None</b>                       |
| <b>Service Factor</b>             | <b>1.00</b>                       |
| <b>Shaft Diameter</b>             | <b>0.625 IN</b>                   |
| <b>Shaft Ground Indicator</b>     | <b>No Shaft Grounding</b>         |
| <b>Shaft Rotation</b>             | <b>Reversible</b>                 |
| <b>Speed</b>                      | <b>3450 rpm</b>                   |
| <b>Speed Code</b>                 | <b>Single Speed</b>               |
| <b>Starting Method</b>            | <b>Direct on line</b>             |
| <b>Thermal Device - Bearing</b>   | <b>None</b>                       |
| <b>Thermal Device - Winding</b>   | <b>None</b>                       |
| <b>Vibration Sensor Indicator</b> | <b>No Vibration Sensor</b>        |
| <b>Winding Thermal 1</b>          | <b>Automatic Thermal Overload</b> |
| <b>Winding Thermal 1 Location</b> | <b>EP</b>                         |
| <b>Winding Thermal 2</b>          | <b>None</b>                       |

## Nameplate

| NP0016XPSL |                        |    |               |    |       |   |    |  |  |
|------------|------------------------|----|---------------|----|-------|---|----|--|--|
| NO.        |                        | CC |               |    |       |   |    |  |  |
| SER. #     |                        |    |               |    |       |   |    |  |  |
| SPEC       | 35-0000-1081           |    |               |    |       |   |    |  |  |
| CAT.NO.    | VXL05122A              |    |               |    |       |   |    |  |  |
| H.P.       | 1                      |    | T. CODE       | T4 |       |   |    |  |  |
| VOLTS      | 115/230                |    |               |    |       |   |    |  |  |
| AMPS       | 12/6                   |    |               |    |       |   |    |  |  |
| R.P.M.     | 3450                   |    |               |    |       |   |    |  |  |
| HZ         | 60                     |    | PH            | 1  | CLASS | B |    |  |  |
| SER.F.     | 1.00                   |    | DES           | N  | CODE  | K |    |  |  |
| RATING     | 40C AMB-CONT           |    |               |    |       |   |    |  |  |
| FRAME      | 56C                    |    | NEMA NOM. EFF |    |       |   | 66 |  |  |
|            |                        | PF | 81            |    |       |   |    |  |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |    |               |    |       |   |    |  |  |

## AC Induction Motor Performance Data

Record # 30814

Typical performance - not guaranteed values

| Winding: 35WG0498-R002 |    |              |              | Type: 3524L                              |                       | Enclosure: XPFC |                               |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|-------------------------------|
| Nameplate Data         |    |              |              | 230 V, 60 Hz:<br>High Voltage Connection |                       |                 |                               |
| Rated Output (HP)      |    | 1            |              | Full Load Torque                         |                       | 1.51 LB-FT      |                               |
| Volts                  |    | 115/230      |              | Start Configuration                      |                       | direct on line  |                               |
| Full Load Amps         |    | 12/6         |              | Breakdown Torque                         |                       | 4.97 LB-FT      |                               |
| R.P.M.                 |    | 3450         |              | Pull-up Torque                           |                       | 2.74 LB-FT      |                               |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                      |                       | 4.24 LB-FT      |                               |
| NEMA Design Code       |    | N KVA Code   |              | Starting Current                         |                       | 37.9 A          |                               |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                          |                       | 2.95 A          |                               |
| NEMA Nom. Eff.         |    | 66           | Power Factor | 81                                       | Line-line Res. @ 25°C |                 | 2.572 Ω A Ph<br>1.8019 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 49°C            |                               |

## Load Characteristics 230 V, 60 Hz, 1 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    |
|-----------------|--------|--------|--------|--------|--------|--------|
| Power Factor    | 51     | 66     | 76     | 82     | 85     | 88     |
| Efficiency      | 48.2   | 63.2   | 68.3   | 70.6   | 70.1   | 68     |
| Speed           | 3563.8 | 3541.1 | 3515.3 | 3483.1 | 3445.7 | 3401.4 |
| Line amperes    | 3.28   | 3.83   | 4.58   | 5.59   | 6.75   | 8.09   |

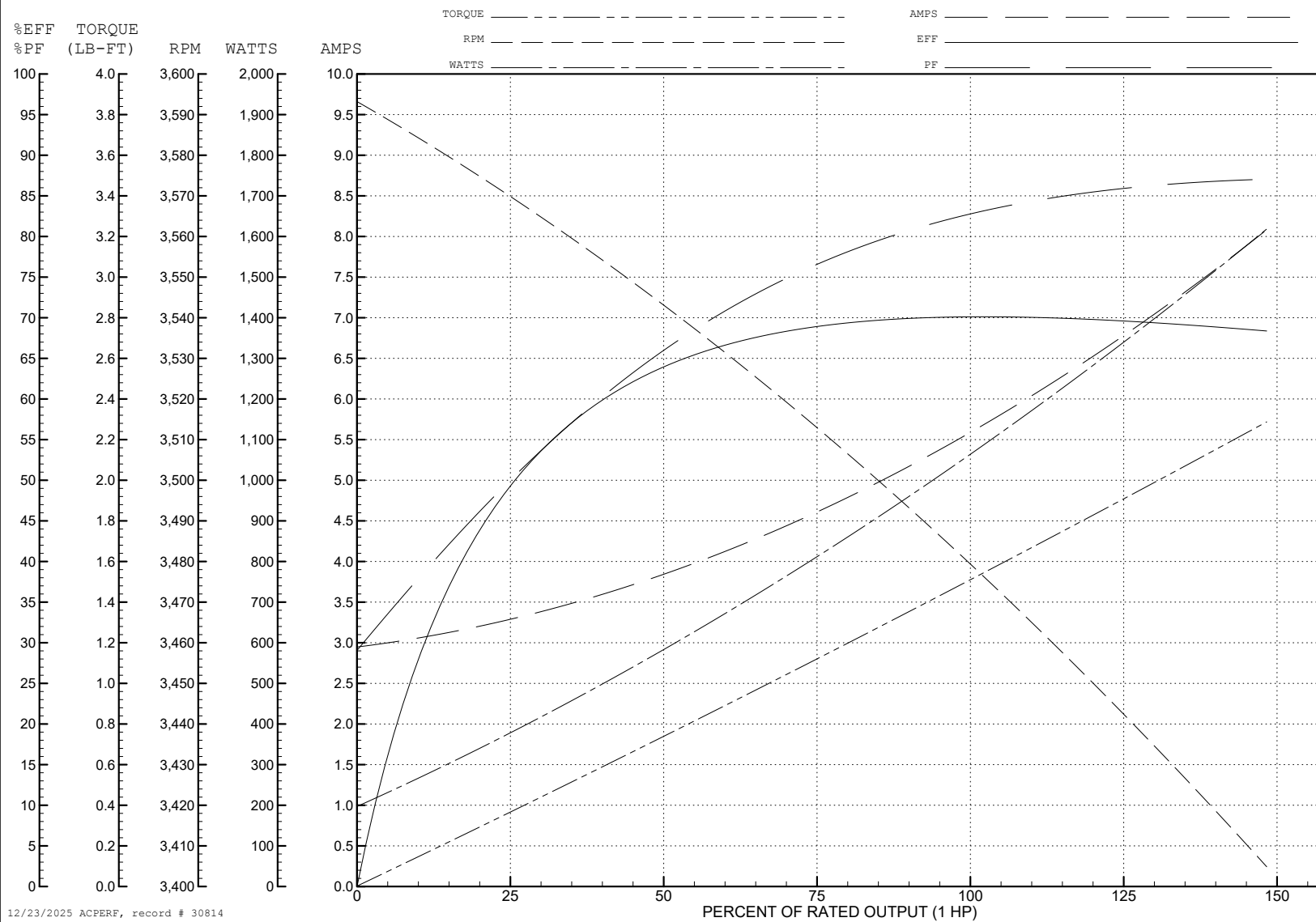
ABB Motors and Mechanical Inc.

WINDING # 35WG0498

Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 3450 RPM 230 V 3524L

TORQUES (LB-FT): PO=4.97 PU=2.74 LR=4.24 LRA=37.9



**AC Induction Motor Performance Data**

Record # 59849

Typical performance - not guaranteed values

| Winding: 35WG0498-R002 |    |              |              | Type: 3524L                             |                       | Enclosure: XPFC |                               |
|------------------------|----|--------------|--------------|-----------------------------------------|-----------------------|-----------------|-------------------------------|
| Nameplate Data         |    |              |              | 115 V, 60 Hz:<br>Low Voltage Connection |                       |                 |                               |
| Rated Output (HP)      |    | 1            |              | Full Load Torque                        |                       | 1.51 LB-FT      |                               |
| Volts                  |    | 115/230      |              | Start Configuration                     |                       | direct on line  |                               |
| Full Load Amps         |    | 12/6         |              | Breakdown Torque                        |                       | 4.97 LB-FT      |                               |
| R.P.M.                 |    | 3450         |              | Pull-up Torque                          |                       | 2.74 LB-FT      |                               |
| Hz                     | 60 | Phase        | 1            | Locked-rotor Torque                     |                       | 4.24 LB-FT      |                               |
| NEMA Design Code       |    | N KVA Code   |              | Starting Current                        |                       | 75.8 A          |                               |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                         |                       | 5.9 A           |                               |
| NEMA Nom. Eff.         |    | 66           | Power Factor | 81                                      | Line-line Res. @ 25°C |                 | 0.643 Ω A Ph<br>1.8019 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                 |                       | 49°C            |                               |

**Load Characteristics 115 V, 60 Hz, 1 HP**

| % of Rated Load | 25     | 50     | 75     | 100    | 125    | 150    |
|-----------------|--------|--------|--------|--------|--------|--------|
| Power Factor    | 51     | 66     | 76     | 82     | 85     | 88     |
| Efficiency      | 48.2   | 63.2   | 68.3   | 70.6   | 70.1   | 68     |
| Speed           | 3563.8 | 3541.1 | 3515.3 | 3483.1 | 3445.7 | 3401.4 |
| Line amperes    | 6.56   | 7.66   | 9.16   | 11.18  | 13.5   | 16.18  |

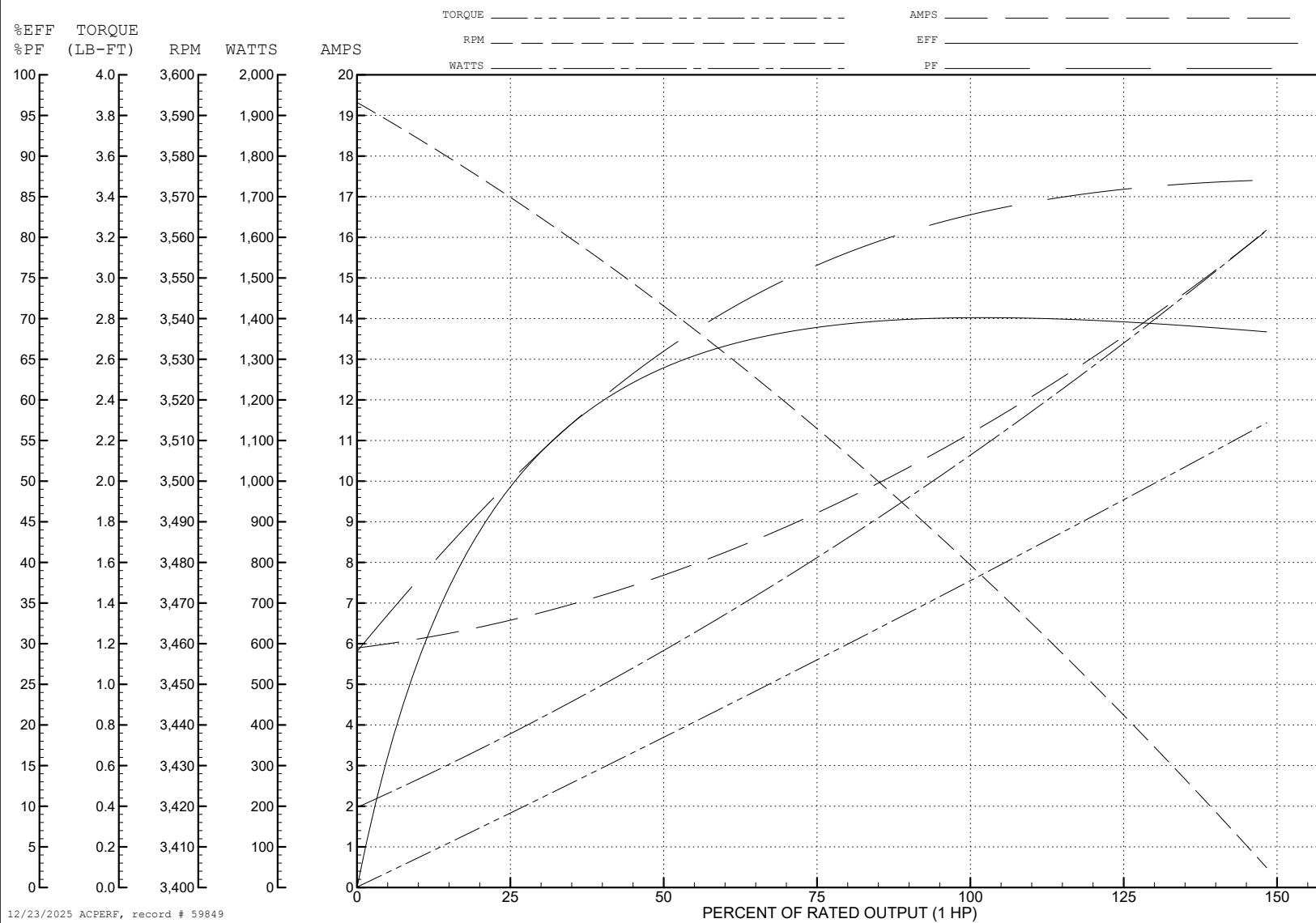
ABB Motors and Mechanical Inc.

WINDING # 35WG0498

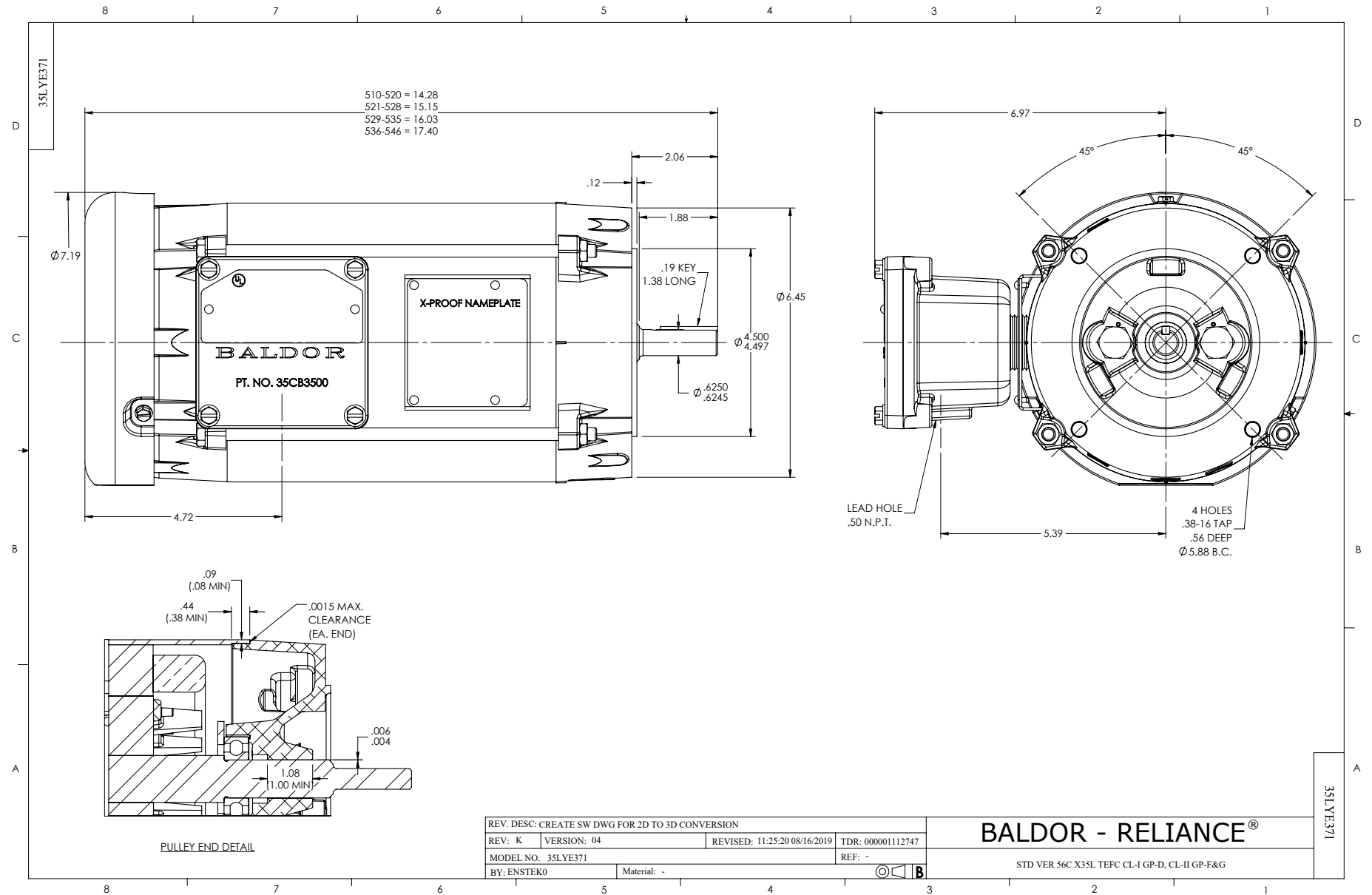
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 3450 RPM 115 V 3524L

TORQUES (LB-FT): PO=4.97 PU=2.74 LR=4.24 LRA=75.8







CD0008

