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# Customer information packet

## VXL05142A

1HP, 1725RPM, 1PH, 60HZ, 56C, 3528L, 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  | 1800 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              | 12.400 A @ 115.0 V<br>6.200 A @ 230.0 V |
| Design Code                    | L                                       |
| Drip Cover                     | No Drip Cover                           |
| Duty Rating                    | CONT                                    |
| Efficiency @ 100% Load         | 67.0 %                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated               |
| Feedback Device                | NO FEEDBACK                             |
| Haz Area Temp Code             | T2C                                     |
| Heater Indicator               | No Heater                               |
| High Voltage Full Load Amps    | 6.2 a                                   |
| Insulation Class               | B                                       |

## Part detail

|              |                |
|--------------|----------------|
| Revision     | F              |
| Type         | AC             |
| Mech. spec.  |                |
| Base         |                |
| Status       | PRD/A          |
| Elec. spec.  | 35WG0527       |
| Layout       | 35LYE371       |
| Eff. date    | 08-15-2024     |
| CD Diagram   | CD0008         |
| Poles        | 04             |
| Leads        | 6#18,1#14 #4TH |
| Proprietary  | False          |
| Created date | 03-24-2021     |

| Inverter Code              | Not Inverter               |
|----------------------------|----------------------------|
| IP Rating                  | NONE                       |
| KVA Code                   | K                          |
| Lifting Lugs               | No Lifting Lugs            |
| Locked Bearing Indicator   | Locked Bearing             |
| Motor Lead Termination     | Flying Leads               |
| Motor Standards            | NEMA                       |
| Motor Type                 | 3528L                      |
| Mounting Arrangement       | F1                         |
| Number of Poles            | 4                          |
| Overall Length             | 15.15 IN                   |
| Power Factor               | 68                         |
| Product Family             | General Purpose            |
| Pulley Face Code           | C-Face                     |
| Rodent Screen              | None                       |
| Service Factor             | 1.00                       |
| Shaft Diameter             | 0.625 IN                   |
| Shaft Ground Indicator     | No Shaft Grounding         |
| Shaft Rotation             | Reversible                 |
| 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          | Automatic Thermal Overload |
| Winding Thermal 1 Location | EP                         |
| Winding Thermal 2          | None                       |

## Nameplate

| NP0016XPSL |                        |    |               |     |       |   |  |  |  |
|------------|------------------------|----|---------------|-----|-------|---|--|--|--|
| NO.        |                        | CC |               |     |       |   |  |  |  |
| SER. #     |                        |    |               |     |       |   |  |  |  |
| SPEC       | 35-0000-1088           |    |               |     |       |   |  |  |  |
| CAT.NO.    | VXL05142A              |    |               |     |       |   |  |  |  |
| H.P.       | 1                      |    | T. CODE       | T3C |       |   |  |  |  |
| VOLTS      | 115/230                |    |               |     |       |   |  |  |  |
| AMPS       | 12.4/6.2               |    |               |     |       |   |  |  |  |
| R.P.M.     | 1725 35WG0527          |    |               |     |       |   |  |  |  |
| HZ         | 60                     |    | PH            | 1   | CLASS | B |  |  |  |
| SER.F.     | 1.00                   |    | DES           | L   | CODE  | K |  |  |  |
| RATING     | 40C AMB-CONT           |    |               |     |       |   |  |  |  |
| FRAME      | 56C                    |    | NEMA NOM. EFF | 67  |       |   |  |  |  |
|            |                        | PF | 68            |     |       |   |  |  |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |    |               |     |       |   |  |  |  |

## AC Induction Motor Performance Data

Record # 8082

Typical performance - not guaranteed values

| Winding: 35WG0527-R001 |    |              | Type: 3528L                              |                         | Enclosure: TEFC       |           |                            |
|------------------------|----|--------------|------------------------------------------|-------------------------|-----------------------|-----------|----------------------------|
| Nameplate Data         |    |              | 230 V, 60 Hz:<br>High Voltage Connection |                         |                       |           |                            |
| Rated Output (HP)      |    | 1            | Full Load Torque                         |                         | 3 LB-FT               |           |                            |
| Volts                  |    | 115/230      | Start Configuration                      |                         | direct on line        |           |                            |
| Full Load Amps         |    | 12.4/6.2     | Breakdown Torque                         |                         | 7 LB-FT               |           |                            |
| R.P.M.                 |    | 1725         | Pull-up Torque                           |                         | 3 LB-FT               |           |                            |
| Hz                     | 60 | Phase        | 1                                        | Locked-rotor Torque     |                       | 7.9 LB-FT |                            |
| NEMA Design Code       |    | L            | KVA Code                                 | K                       | Starting Current      |           | 39 A                       |
| Service Factor (S.F.)  |    |              | 1                                        | No-load Current         |                       | 3.8 A     |                            |
| NEMA Nom. Eff.         |    | 67           | Power Factor                             | 68                      | Line-line Res. @ 25°C |           | 2.73 Ω A Ph<br>1.76 Ω B Ph |
| Rating - Duty          |    | 40C AMB-CONT |                                          | Temp. Rise @ Rated Load |                       | 60°C      |                            |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 40   | 57   | 70   | 77   | 83   | 86   |
| Efficiency      | 51   | 64.5 | 67   | 68.5 | 66.5 | 63.5 |
| Speed           | 1790 | 1780 | 1765 | 1750 | 1735 | 1710 |
| Line amperes    | 4    | 4.5  | 5.2  | 6.2  | 7.25 | 8.7  |

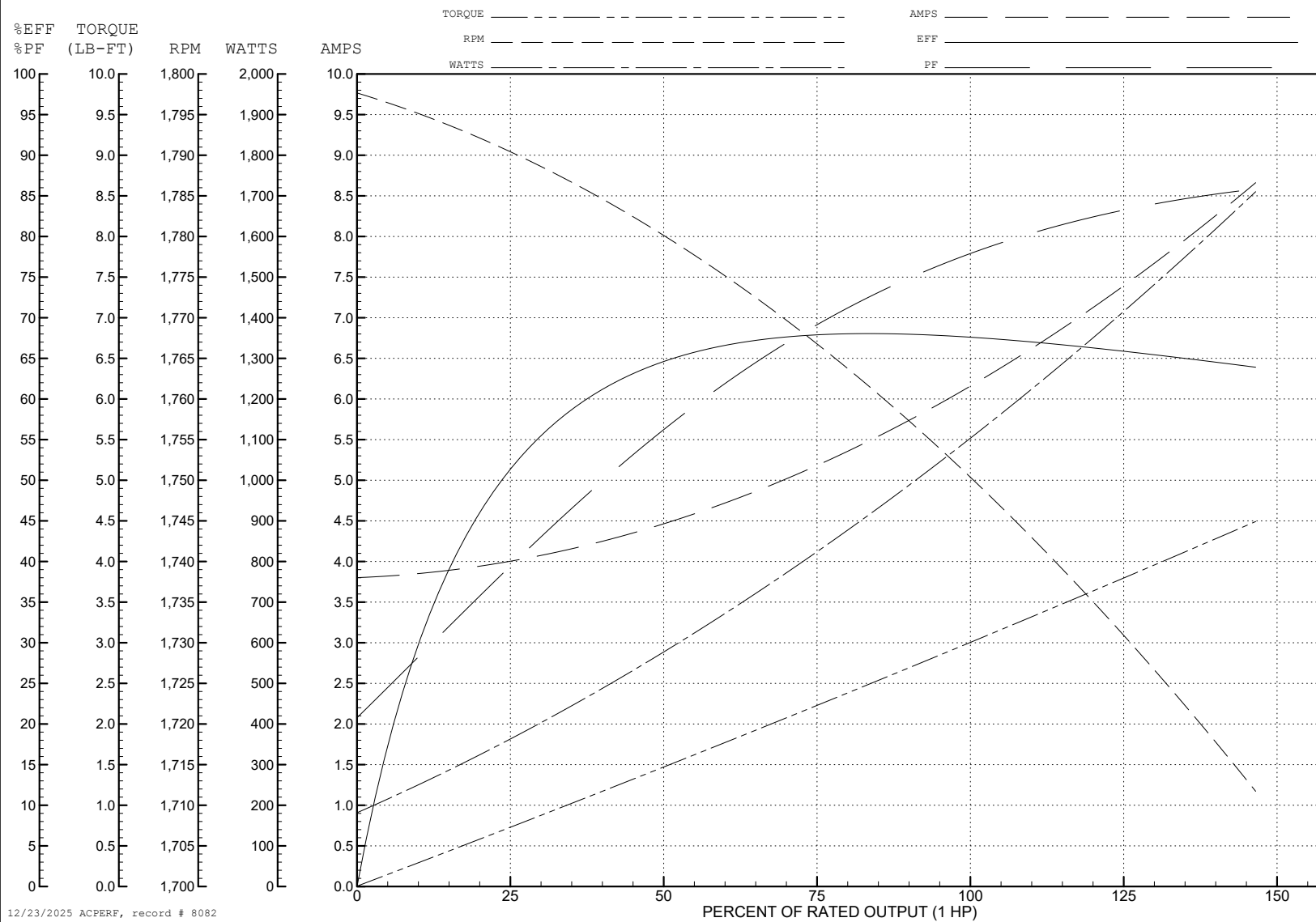
ABB Motors and Mechanical Inc.

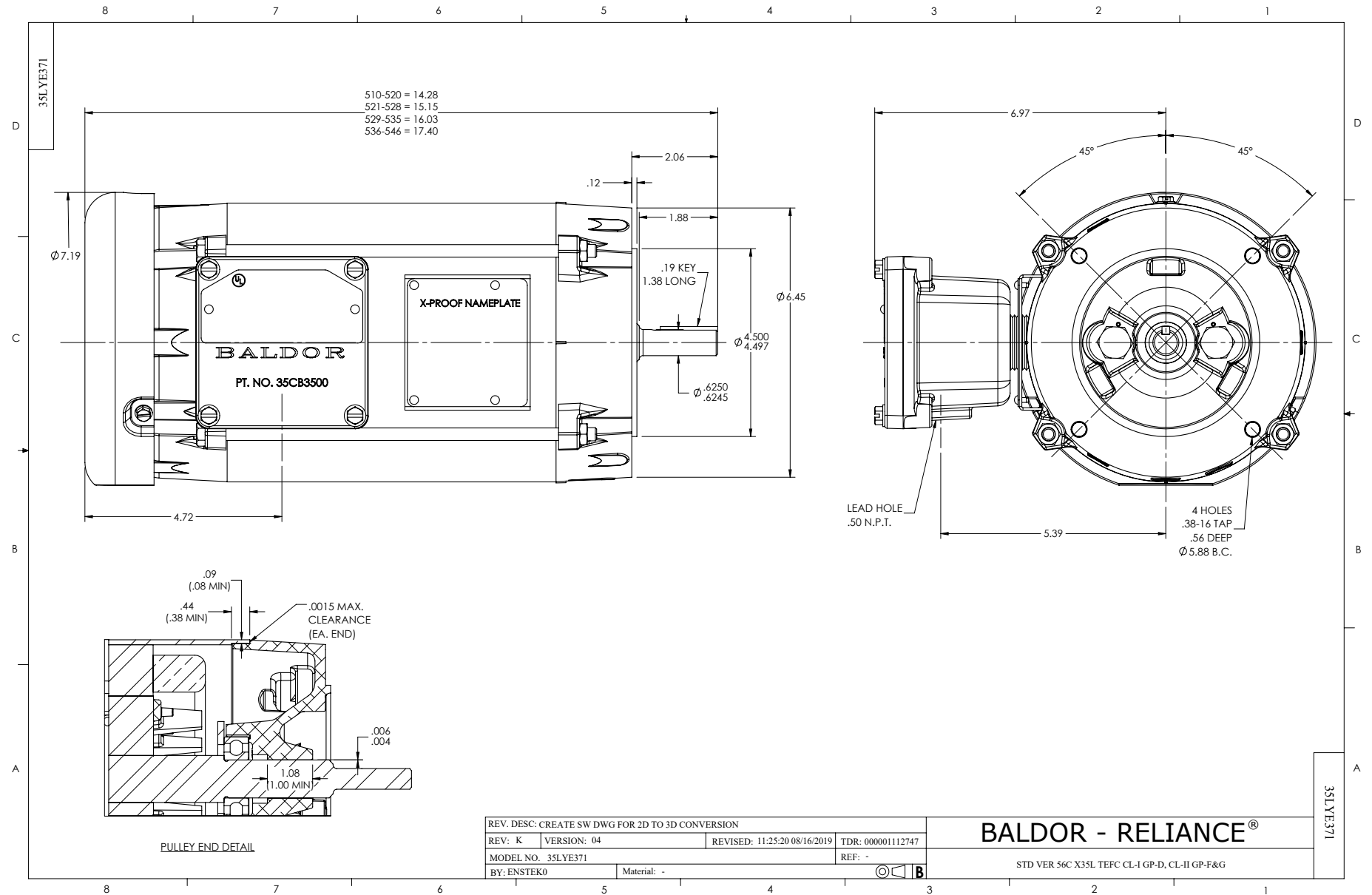
WINDING # 35WG0527

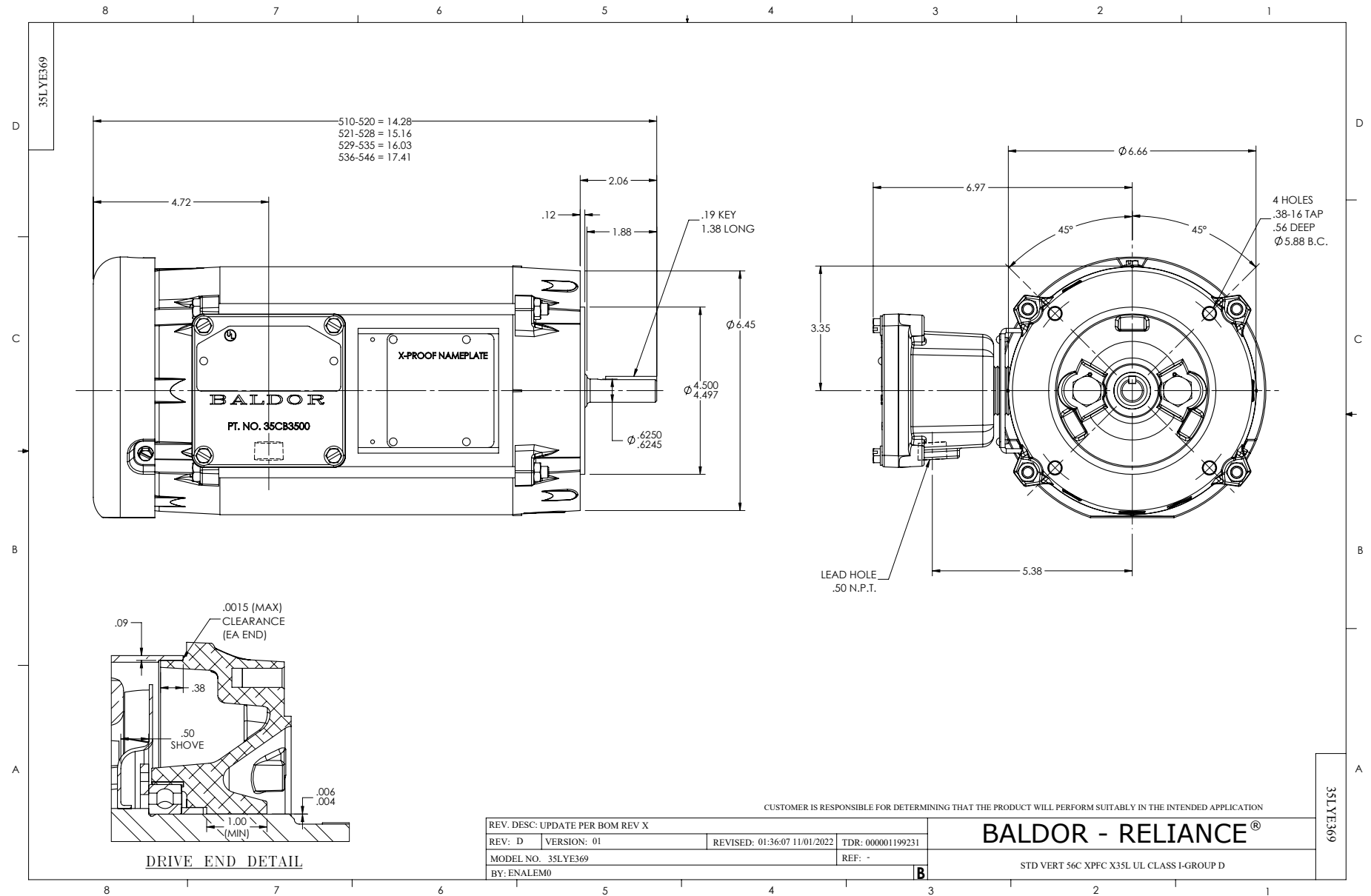
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1725 RPM 230 V 3528L

TORQUES (LB-FT) : PO=7 PU=3 LR=7.9 LRA=39









CD0008

