

# ABB BALDOR RELIANCE III

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## Customer information packet

### CXL050342A

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

Class - CLI GP D; CLII GP F,G

Division - Division I

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | XPFC                                                        |
| <b>Frame</b>                          | 56C                                                         |
| <b>Frame Material</b>                 | Steel                                                       |
| <b>Frequency</b>                      | 60.00 Hz                                                    |
| <b>Haz Area Class and Group</b>       | CLI GP D; CLII GP F,G                                       |
| <b>Haz Area Division</b>              | Division I                                                  |
| <b>Motor Letter Type</b>              | Cap Start, Induction Run                                    |
| <b>Output @ Frequency</b>             | .330 HP @ 60 HZ                                             |
| <b>Phase</b>                          | 1                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>115.0 V @ 60 HZ<br>208.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | CSA<br>UL                                                   |
| <b>Ambient Temperature</b>            | 40 °C                                                       |
| <b>Auxiliary Box</b>                  | NO AUXILLARY BOX                                            |
| <b>Auxiliary Box Lead Termination</b> | None                                                        |
| <b>Base Indicator</b>                 | Rigid                                                       |
| <b>Bearing Grease Type</b>            | Polyrex EM (-20F +300F)                                     |
| <b>Blower</b>                         | None                                                        |
| <b>Current @ Voltage</b>              | 3.000 A @ 230.0 V<br>3.200 A @ 208.0 V<br>6.000 A @ 115.0 V |
| <b>Design Code</b>                    | N                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 60.0 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |
| <b>Feedback Device</b>                | NO FEEDBACK                                                 |
| <b>Haz Area Temp Code</b>             | T3C                                                         |
| <b>Heater Indicator</b>               | No Heater                                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | E          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 34WG5597   |
| <b>Layout</b>       | 34LY5328   |
| <b>Eff. date</b>    | 09-12-2024 |
| <b>CD Diagram</b>   | CD0565     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 7#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 03-05-2021 |

|                             |                            |
|-----------------------------|----------------------------|
| High Voltage Full Load Amps | 3.0 a                      |
| 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 Termination      | Flying Leads               |
| Motor Standards             | NEMA                       |
| Motor Type                  | 3414L                      |
| Mounting Arrangement        | F1                         |
| Number of Poles             | 4                          |
| Overall Length              | 13.22 IN                   |
| Power Factor                | 60                         |
| Product Family              | Hazardous Location Motor   |
| 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  | ES                         |
| Winding Thermal 2           | None                       |

**Nameplate**

| NP0016XPSL |                        |               |     |       |   |  |  |  |  |
|------------|------------------------|---------------|-----|-------|---|--|--|--|--|
| NO.        |                        | CC            |     |       |   |  |  |  |  |
| SER. #     |                        |               |     |       |   |  |  |  |  |
| SPEC       | 34-0000-0394           |               |     |       |   |  |  |  |  |
| CAT.NO.    | CXL050342A             |               |     |       |   |  |  |  |  |
| H.P.       | .33                    | T. CODE       | T3C |       |   |  |  |  |  |
| VOLTS      | 115/208-230            |               |     |       |   |  |  |  |  |
| AMPS       | 6/3.2-3                |               |     |       |   |  |  |  |  |
| R.P.M.     | 1725 34WG5597          |               |     |       |   |  |  |  |  |
| HZ         | 60                     | PH            | 1   | CLASS | B |  |  |  |  |
| SER.F.     | 1.00                   | DES           | N   | CODE  | L |  |  |  |  |
| RATING     | 40C AMB-CONT           |               |     |       |   |  |  |  |  |
| FRAME      | 56C                    | NEMA NOM. EFF | 60  |       |   |  |  |  |  |
|            | PF                     | 60            |     |       |   |  |  |  |  |
| BLANK      | NEMA MG-1 PART 5, IP54 |               |     |       |   |  |  |  |  |

**AC Induction Motor Performance Data**

Record # 6785

Typical performance - not guaranteed values

| Winding: 34WG5597-R002 |    |             | Type: 3414L                              |                         | Enclosure: XPFC       |           |                            |
|------------------------|----|-------------|------------------------------------------|-------------------------|-----------------------|-----------|----------------------------|
|                        |    |             |                                          |                         |                       |           |                            |
| Nameplate Data         |    |             | 230 V, 60 Hz:<br>High Voltage Connection |                         |                       |           |                            |
| Rated Output (HP)      |    | .33         | Full Load Torque                         |                         | 1 LB-FT               |           |                            |
| Volts                  |    | 115/208-230 | Start Configuration                      |                         | direct on line        |           |                            |
| Full Load Amps         |    | 6/3.2-3     | 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                                        | 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 |                       | 59°C      |                            |

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

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

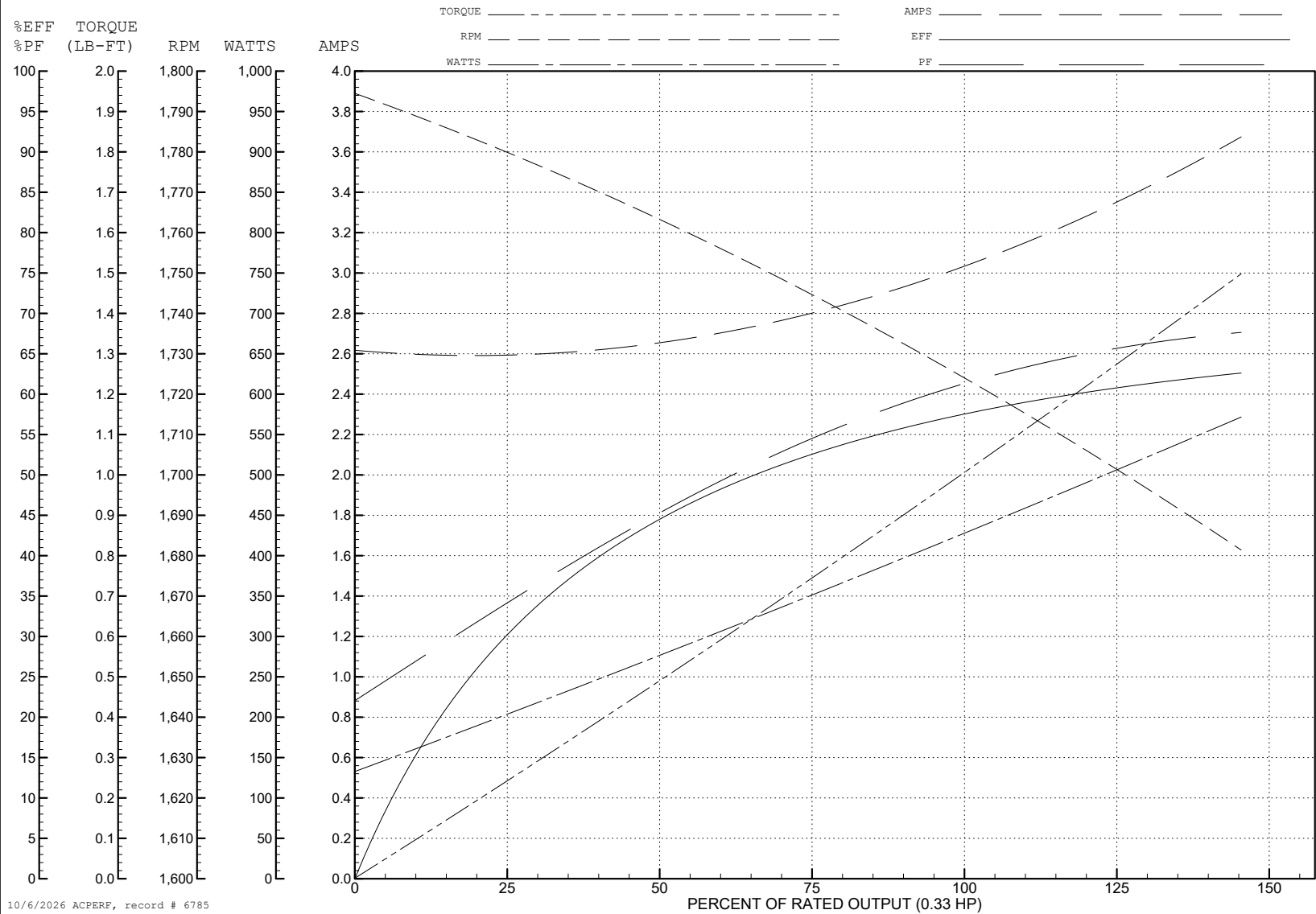
ABB Motors and Mechanical Inc.

WINDING # 34WG5597

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



10/6/2026 ACPERF, record # 6785

**AC Induction Motor Performance Data**

Record # 39599

Typical performance - not guaranteed values

| Winding: 34WG5597-R002 |    |              | Type: 3414L  |                                         | Enclosure: XPFC |                           |
|------------------------|----|--------------|--------------|-----------------------------------------|-----------------|---------------------------|
| Nameplate Data         |    |              |              | 115 V, 60 Hz:<br>Low Voltage Connection |                 |                           |
| Rated Output (HP)      |    | .33          |              | Full Load Torque                        |                 | 1 LB-FT                   |
| Volts                  |    | 115/208-230  |              | Start Configuration                     |                 | direct on line            |
| Full Load Amps         |    | 6/3.2-3      |              | 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     | Starting Current                        |                 | 26 A                      |
| Service Factor (S.F.)  |    | 1            |              | No-load Current                         |                 | 5.2 A                     |
| NEMA Nom. Eff.         |    | 60           | Power Factor | 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                 |                 | 59°C                      |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 32   | 49   | 55   | 59   | 65   | 68   |
| Efficiency      | 32.9 | 41   | 52.1 | 60.1 | 61.6 | 61.5 |
| Speed           | 1780 | 1760 | 1745 | 1725 | 1705 | 1680 |
| Line amperes    | 5.2  | 5.4  | 5.6  | 6    | 6.6  | 7.4  |

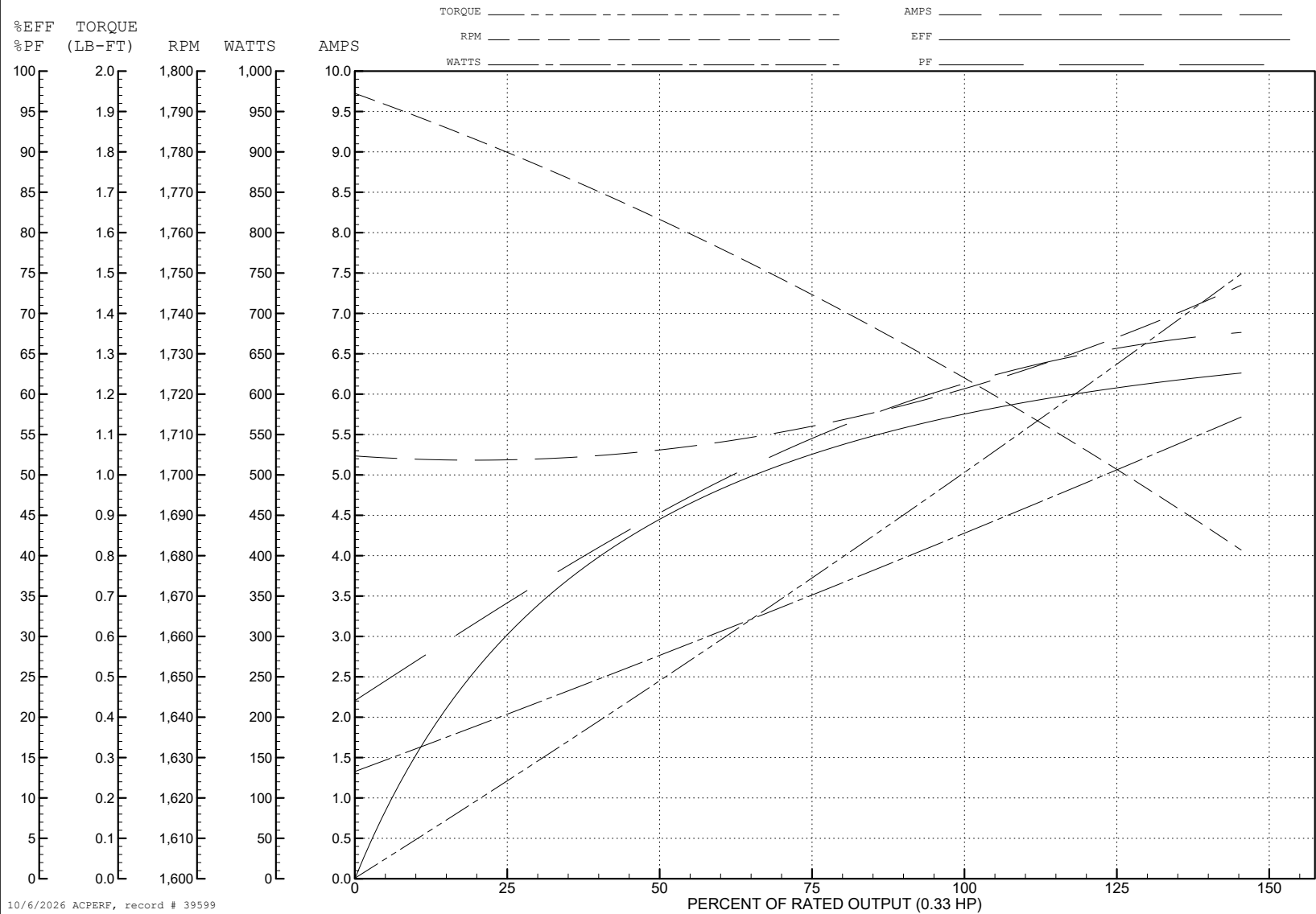
ABB Motors and Mechanical Inc.

WINDING # 34WG5597

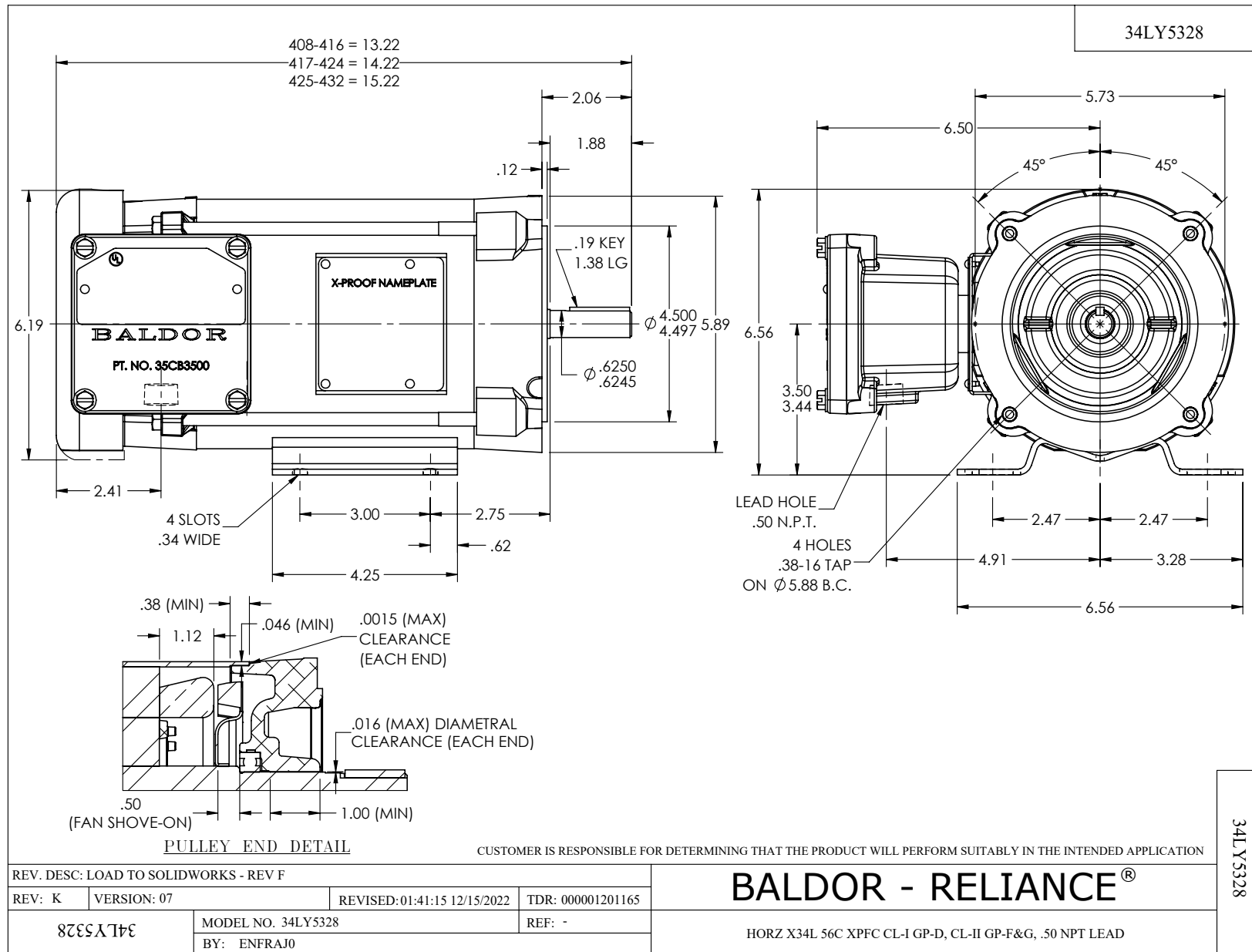
Typical performance - not guaranteed values.

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



10/6/2026 ACPERF, record # 39599



CD0565

