

# ABB BALDOR RELIANCE III

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## Customer information packet

### FSWDM3542-E

.75HP, 1765RPM, 3PH, 60HZ, 56, 3514M, TENV, F1

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                             |
|---------------------------------------|-------------------------------------------------------------|
| <b>Enclosure</b>                      | TENV                                                        |
| <b>Frame</b>                          | 56                                                          |
| <b>Frame Material</b>                 | Stainless Steel                                             |
| <b>Frequency</b>                      | 60.00 Hz                                                    |
| <b>Haz Area Class and Group</b>       | None                                                        |
| <b>Haz Area Division</b>              | Not Applicable                                              |
| <b>Motor Letter Type</b>              | Three Phase                                                 |
| <b>Output @ Frequency</b>             | .750 HP @ 60 HZ                                             |
| <b>Phase</b>                          | 3                                                           |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                            |
| <b>Voltage @ Frequency</b>            | 208.0 V @ 60 HZ<br>230.0 V @ 60 HZ<br>460.0 V @ 60 HZ       |
| <b>Agency Approvals</b>               | CSA<br>CURUSEEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>WEEE     |
| <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>              | 2.400 A @ 230.0 V<br>2.400 A @ 208.0 V<br>1.200 A @ 460.0 V |
| <b>Design Code</b>                    | B                                                           |
| <b>Drip Cover</b>                     | No Drip Cover                                               |
| <b>Duty Rating</b>                    | CONT                                                        |
| <b>Efficiency @ 100% Load</b>         | 82.5 %                                                      |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                   |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | B          |
| <b>Type</b>         | AC         |
| <b>Mech. spec.</b>  | 35E4927    |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | 35WGG426   |
| <b>Layout</b>       | 35LYE4927  |
| <b>Eff. date</b>    | 08-21-2023 |
| <b>CD Diagram</b>   | CD0005     |
| <b>Poles</b>        | 04         |
| <b>Leads</b>        | 9#18       |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 03-11-2022 |

|                                      |                                   |
|--------------------------------------|-----------------------------------|
| <b>Feedback Device</b>               | <b>NO FEEDBACK</b>                |
| <b>Front Shaft Indicator</b>         | <b>None</b>                       |
| <b>Heater Indicator</b>              | <b>No Heater</b>                  |
| <b>High Voltage Full Load Amps</b>   | <b>1.2 a</b>                      |
| <b>Insulation Class</b>              | <b>H</b>                          |
| <b>Inverter Code</b>                 | <b>Inverter Duty</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>Max Speed</b>                     | <b>2700 rpm</b>                   |
| <b>Motor Finish</b>                  | <b>UNPAINTED</b>                  |
| <b>Motor Lead Quantity/Wire Size</b> | <b>9 @ 18 AWG</b>                 |
| <b>Motor Lead Termination</b>        | <b>Flying Leads</b>               |
| <b>Motor Standards</b>               | <b>NEMA</b>                       |
| <b>Motor Type</b>                    | <b>3514M</b>                      |
| <b>Mounting Arrangement</b>          | <b>F1</b>                         |
| <b>Number of Poles</b>               | <b>4</b>                          |
| <b>Overall Length</b>                | <b>11.78 IN</b>                   |
| <b>Power Factor</b>                  | <b>70</b>                         |
| <b>Product Family</b>                | <b>WD All SD Non-Encapsulated</b> |
| <b>Pulley End Bearing Type</b>       | <b>Sealed Bearing</b>             |
| <b>Pulley Face Code</b>              | <b>Standard</b>                   |
| <b>Pulley Shaft Indicator</b>        | <b>Standard</b>                   |
| <b>Rodent Screen</b>                 | <b>None</b>                       |
| <b>Service Factor</b>                | <b>1.15</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>Shaft Slinger Indicator</b>       | <b>No Slinger</b>                 |
| <b>Speed</b>                         | <b>1765 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>                       |

| Vibration Sensor Indicator | No Vibration Sensor |
|----------------------------|---------------------|
| Winding Thermal 1          | None                |
| Winding Thermal 2          | None                |

**Nameplate**

| NP4427AAA01 |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|-------------|---------------|--------|-----|-------------|------|---------------|----------|-------|------|-----|------|--|-------|--|--|
| CAT #       | FSWDM3542-E   |        |     |             |      | WT            | 36       |       | LBS  |     |      |  |       |  |  |
| SPEC        | 35E4927G426G1 |        |     |             |      | ENCL          | TENV     |       |      |     |      |  |       |  |  |
| SER #       |               |        |     |             |      | CC            | 010A     |       | IP   | 69  |      |  |       |  |  |
| HP          | .75           |        |     |             |      | MAG CUR       | 1.47/.73 |       |      |     |      |  |       |  |  |
| VOLTS       | 208-230/460   |        |     |             |      | NEMA NOM. EFF |          |       |      |     | 82.5 |  |       |  |  |
| AMPS        | 2.4-2.2/1.1   |        |     |             |      | PF            |          | 74    |      |     |      |  |       |  |  |
| RATING      | 40C AMB-CONT  |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
| RPM         | 1765          |        |     |             |      | MAX RPM       |          | 2700  |      |     |      |  |       |  |  |
| FRAME       | 56            | HZ     |     | 60          |      | CODE          | K        | CLASS |      | H   |      |  |       |  |  |
| SER.F.      | 1.15          | SF AMP |     | 2.7-2.6/1.3 |      |               | PH       |       | 3    | DES | B    |  |       |  |  |
| DE          | 6205          |        | ODE |             | 6205 |               |          |       |      |     |      |  |       |  |  |
| LUBRICATION | POLYREX EM    |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
| ID LOGO     | INVERTER TYPE |        |     | VPWM        |      | CHP           | 60       |       | TO   |     | 90   |  | 1.5:1 |  |  |
| ID LOGO     | WK2           | 0.101  |     | CT          | 15   | TO            | 60       |       | 4:1  |     |      |  |       |  |  |
| ID LOGO     | SL HZ         | 1.2    |     | VT          | 3    | TO            | 60       |       | 20:1 |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |
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|             |               |        |     |             |      |               |          |       |      |     |      |  |       |  |  |

**AC Induction Motor Performance Data**

Record # 91699

Typical performance - not guaranteed values

| Winding: 35WGG426-R006 |    |             | Type: 3514M                              |                     | Enclosure: TENV         |           |        |
|------------------------|----|-------------|------------------------------------------|---------------------|-------------------------|-----------|--------|
| Nameplate Data         |    |             | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |           |        |
| Rated Output (HP)      |    | .75         | Full Load Torque                         |                     | 2.24 LB-FT              |           |        |
| Volts                  |    | 208-230/460 | Start Configuration                      |                     | direct on line          |           |        |
| Full Load Amps         |    | 2.4/1.2     | Breakdown Torque                         |                     | 8 LB-FT                 |           |        |
| R.P.M.                 |    | 1765        | Pull-up Torque                           |                     | 4.4 LB-FT               |           |        |
| Hz                     | 60 | Phase       | 3                                        | Locked-rotor Torque |                         | 5.1 LB-FT |        |
| NEMA Design Code       |    | B           | KVA Code                                 | K                   | Starting Current        |           | 8.4 A  |
| Service Factor (S.F.)  |    | 1.15        | No-load Current                          |                     | 0.85 A                  |           |        |
| NEMA Nom. Eff.         |    | 82.5        | Power Factor                             | 70                  | Line-line Res. @ 25°C   |           | 30.3 Ω |
| Rating - Duty          |    | 40C         | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |           | 25°C   |
| S.F. Amps              |    | 2.8-2.6/1.3 | Temp. Rise @ S.F. Load                   |                     | 30°C                    |           |        |
|                        |    |             | Locked-rotor Power Factor                |                     | 66.8                    |           |        |
|                        |    |             | Rotor inertia                            |                     | 0.101 LB-FT2            |           |        |

**Load Characteristics 460 V, 60 Hz, 0.75 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 30   | 48   | 61   | 70   | 77   | 81   | 78   |
| Efficiency      | 68.4 | 79.2 | 82.1 | 82.9 | 82.4 | 81.1 | 83.1 |
| Speed           | 1791 | 1783 | 1775 | 1766 | 1757 | 1745 | 1757 |
| Line amperes    | 0.87 | 0.95 | 1.06 | 1.21 | 1.4  | 1.61 | 1.26 |

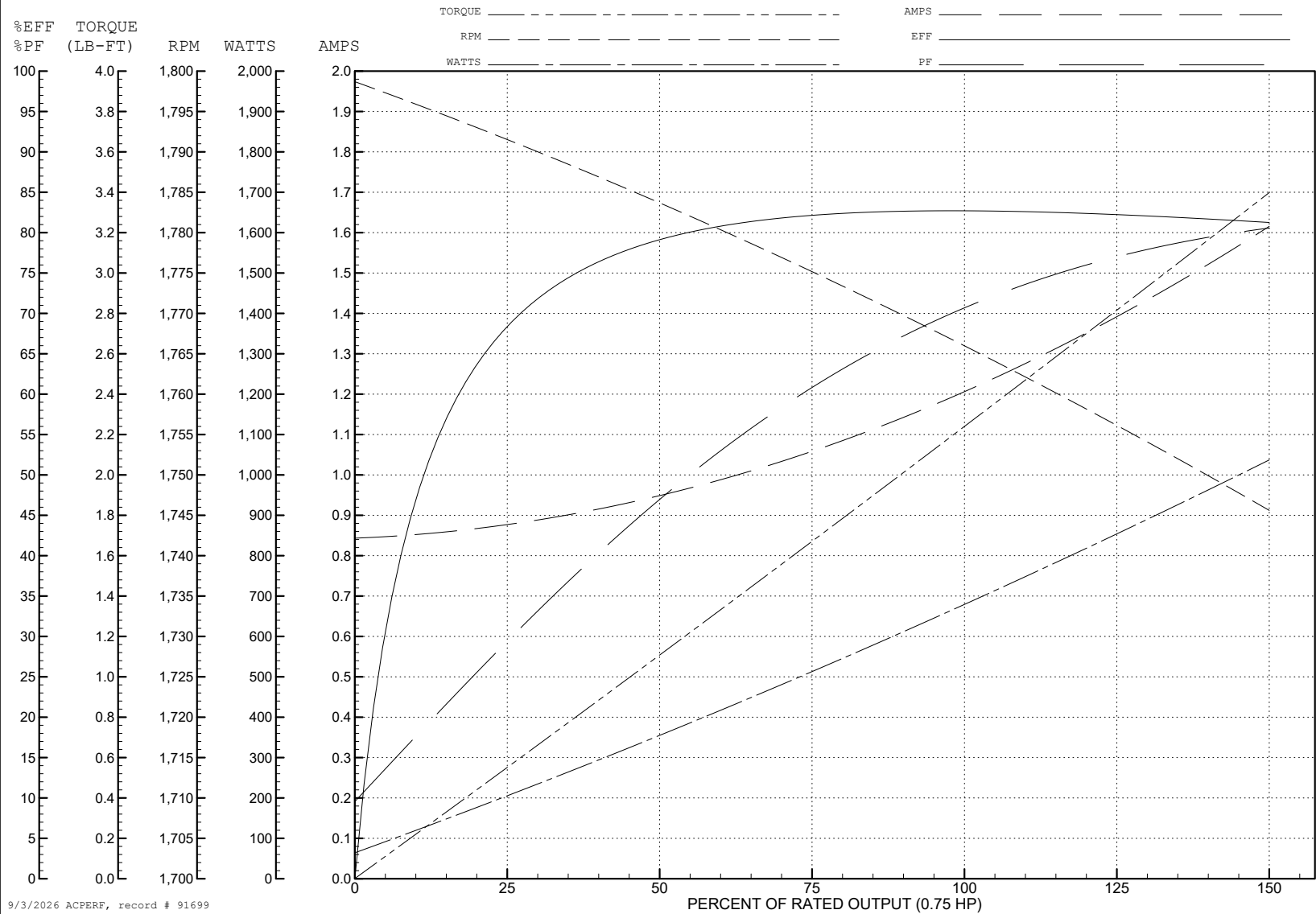
ABB Motors and Mechanical Inc.

WINDING # 35WGG426

0.75 HP 3 PH 60 HZ 1765 RPM 460 V 3514M

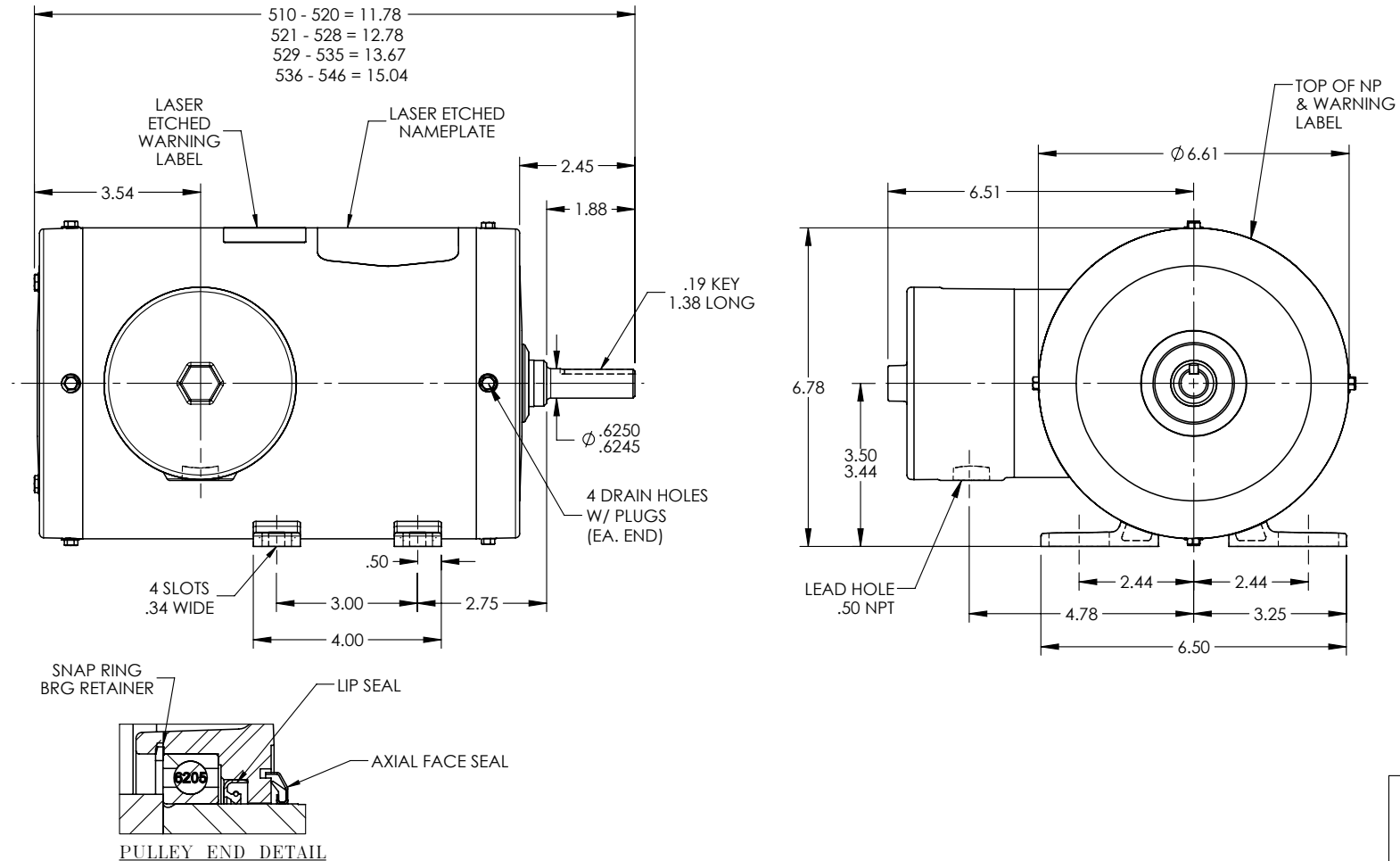
Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=8 PU=4.4 LR=5.1 LRA=8.4



9/3/2026 ACPERF, record # 91699

35LYE4927



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

REV. DESC: REMOVE DRAIN FTG; ADD DRAIN PLUG

REV: B

VERSION: 02

REVISED: 12:26:28 01/27/2023

TDR: 000001202627

35LYE4927

MODEL NO. 35LYE4927

BY: ENSTEK0

REF: -

**BALDOR**

STD HORZ 56 TENV 35M WD11/12

35LYE4927

