

# ABB BALDOR RELIANCE III

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## Customer information packet

### EGDM2333T

15HP, 1765RPM, 3PH, 60HZ, 254TZ, 0944M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

|                                       |                                                                |
|---------------------------------------|----------------------------------------------------------------|
| <b>Enclosure</b>                      | TEFC                                                           |
| <b>Frame</b>                          | 254TZ                                                          |
| <b>Frame Material</b>                 | Iron                                                           |
| <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>             | 15.000 HP @ 60 HZ                                              |
| <b>Phase</b>                          | 3                                                              |
| <b>Synchronous Speed @ Frequency</b>  | 1800 RPM @ 60 HZ                                               |
| <b>Voltage @ Frequency</b>            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                             |
| <b>Agency Approvals</b>               | CSA<br>CSA EEV<br>NEMA PREMIUM<br>UR                           |
| <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>              | 38.000 A @ 208.0 V<br>36.200 A @ 230.0 V<br>18.100 A @ 460.0 V |
| <b>Design Code</b>                    | A                                                              |
| <b>Drip Cover</b>                     | No Drip Cover                                                  |
| <b>Duty Rating</b>                    | CONT                                                           |
| <b>Efficiency @ 100% Load</b>         | 92.4 %                                                         |
| <b>Electrically Isolated Bearing</b>  | Not Electrically Isolated                                      |
| <b>Feedback Device</b>                | NO FEEDBACK                                                    |
| <b>Front Shaft Indicator</b>          | None                                                           |

**Part Detail**

|                     |                 |
|---------------------|-----------------|
| <b>Revision</b>     | K               |
| <b>Type</b>         | AC              |
| <b>Mech. spec.</b>  | 09L721          |
| <b>Base</b>         |                 |
| <b>Status</b>       | PRD/A           |
| <b>Elec. spec.</b>  | 09WGT597        |
| <b>Layout</b>       | 09LYL721        |
| <b>Eff. date</b>    | 11-27-2024      |
| <b>CD Diagram</b>   | CD0005          |
| <b>Poles</b>        | 04              |
| <b>Leads</b>        | 9#12 72" LONG Y |
| <b>Proprietary</b>  | False           |
| <b>Created date</b> | 02-02-2021      |

|                                      |                       |
|--------------------------------------|-----------------------|
| <b>Heater Indicator</b>              | No Heater             |
| <b>High Voltage Full Load Amps</b>   | 18.1 a                |
| <b>Insulation Class</b>              | F                     |
| <b>Inverter Code</b>                 | Inverter Ready        |
| <b>KVA Code</b>                      | H                     |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs |
| <b>Locked Bearing Indicator</b>      | Locked Bearing        |
| <b>Motor Lead Quantity/Wire Size</b> | 9 @ 12 AWG            |
| <b>Motor Lead Termination</b>        | Flying Leads          |
| <b>Motor Standards</b>               | NEMA                  |
| <b>Motor Type</b>                    | 0944M                 |
| <b>Mounting Arrangement</b>          | F1                    |
| <b>Number of Poles</b>               | 4                     |
| <b>Overall Length</b>                | 24.66 IN              |
| <b>Power Factor</b>                  | 84                    |
| <b>Product Family</b>                | General Purpose       |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing        |
| <b>Pulley Face Code</b>              | Standard              |
| <b>Pulley Shaft Indicator</b>        | Standard              |
| <b>Rodent Screen</b>                 | None                  |
| <b>Service Factor</b>                | 1.15                  |
| <b>Shaft Diameter</b>                | 1.625 IN              |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding    |
| <b>Shaft Rotation</b>                | Reversible            |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger         |
| <b>Speed</b>                         | 1765 rpm              |
| <b>Speed Code</b>                    | Single Speed          |
| <b>Starting Method</b>               | Direct on line        |
| <b>Thermal Device - Bearing</b>      | None                  |
| <b>Thermal Device - Winding</b>      | None                  |
| <b>Vibration Sensor Indicator</b>    | No Vibration Sensor   |
| <b>Winding Thermal 1</b>             | None                  |
| <b>Winding Thermal 2</b>             | None                  |

**Nameplate**

| NP3126L      |              |      |    |     |     |      |    |   |   |
|--------------|--------------|------|----|-----|-----|------|----|---|---|
| CAT.NO.      | EGDM2333T    |      |    |     |     |      |    |   |   |
| SPEC.        | 09L721T597G1 |      |    |     |     |      |    |   |   |
| HP           | 15           |      |    |     |     |      |    |   |   |
| VOLTS        | 230/460      |      |    |     |     |      |    |   |   |
| AMP          | 36.2/18.1    |      |    |     |     |      |    |   |   |
| RPM          | 1765         |      |    |     |     |      |    |   |   |
| FRAME        | 254TZ        |      | HZ |     | 60  |      | PH |   | 3 |
| SER.F.       | 1.15         | CODE |    | H   | DES | A    | CL | F |   |
| NEMA-NOM-EFF | 92.4         | PF   |    | 84  |     |      |    |   |   |
| RATING       | 40C AMB-CONT |      |    |     |     |      |    |   |   |
| CC           | 010A         |      |    |     |     |      |    |   |   |
| DE           | 6309         |      |    | ODE |     | 6208 |    |   |   |
| ENCL         | TEFC         | SN   |    |     |     |      |    |   |   |
|              | SFA 41/20.4  |      |    |     |     |      |    |   |   |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA390496     | SA 09L721T597G1                          | 1.000 ea |
| RA380948     | RA 09L721T597G1                          | 1.000 ea |
| 09CB3003     | CB W/1.75" DIA LD HL - 37, 39, 307 & 309 | 1.000 ea |
| 09GS1000     | GASKET-CONDUIT BOX, 1/16 THICK LEXIDE    | 1.000 ea |
| 51XW2520A12  | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 4.000 ea |
| WD1000B16    | T&B CX70TN OR L70P TERMINAL LUG          | 1.000 ea |
| 59XW2520G07  | .25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN  | 1.000 ea |
| 09EP1100A198 | ENDPLATE, MACH                           | 1.000 ea |
| HA3400A33    | STUD- 3/8-16 X 4.96 HEX                  | 4.000 ea |
| XY3816A12    | 3/8-16 FINISHED NUT W/SERRATIONS         | 4.000 ea |
| HW1001A38    | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| HW5100A08    | W3118-035 WVY WSHR (WB)                  | 1.000 ea |
| 09EP1101A144 | PU ENDPLATE, MACH W/NO GREASER HOLES     | 1.000 ea |
| 10XN3816K28  | 3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5  | 4.000 ea |
| HW4600B44    | V-RING SLINGER 1.500 X 1.810 X .28 VITON | 1.000 ea |
| HW4600A51    | SEAL 1.688 X 2.686 X 0.313 SINGLE LIP-CR | 1.000 ea |
| 10XN2520K36  | 1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P | 4.000 ea |
| HW1001A25    | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| 09FH1007     | BALDOR MOTOR FAN COVER WITHOUT CAST SLOT | 1.000 ea |
| HW1001A38    | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| HW1001A38    | LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I | 4.000 ea |
| 09CB3501SP   | CONDUIT BOX LID FOR 09CB3001 & 09CB3002  | 1.000 ea |
| 09GS1013SP   | GS FOR 09CB3501, 12CB1500 & 12CB1503 LID | 1.000 ea |
| 51XW2520A12  | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea |
| HW2501G32    | KEY, 3/8 SQ X 3.750                      | 1.000 ea |
| HA4066A01    | PUSH IN T-DRAIN FITTING (BLACK)          | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.080 lb |
| HA4066A01    | PUSH IN T-DRAIN FITTING (BLACK)          | 1.000 ea |
| 37FN3002B02  | EXFN, PLASTIC, 7.50 OD, 1.503 ID         | 1.000 ea |
| HW2500A25    | WOODRUFF KEY USA #1008 #BLOW CARBON STEE | 1.000 ea |
| MG1025C02    | WILKOFASST SG, 787.105, TAN              | 0.050 ga |

|             |                                          |           |
|-------------|------------------------------------------|-----------|
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea  |
| LB1624      | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea  |
| LC0005      | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea  |
| NP3126L     | ALUM FARM DUTY SUPER-E UL CSA-EEV PREM   | 1.000 ea  |
| 40PA1005    | PACKAGING GROUP, 09 STD                  | 1.000 ea  |
| MN416A01    | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea  |
| ML14-1E12-D | 12 AWG, 1,BLUE, DRUM                     | 72.000 in |
| ML14-2A12-D | 12 AWG, 2,WHITE, DRUM                    | 72.000 in |
| PE-0000003  | ZRTG PE ASSEMBLY                         | 1.000 ea  |
| ML14-3J12-D | 12 AWG, 3,ORANGE, DRUM                   | 72.000 in |
| ML14-4F12-D | 12 AWG, 4,YELLOW, DRUM                   | 72.000 in |
| ML14-5B12-D | 12 AWG, 5,BLACK, DRUM                    | 72.000 in |
| ML14-6L12-D | 12 AWG, 6,PURPLE, DRUM                   | 72.000 in |
| ML14-7K12-D | 12 AWG, 7,PINK, DRUM                     | 72.000 in |
| ML14-8C12-D | 12 AWG, 8,RED, DRUM                      | 72.000 in |
| ML14-9G12-D | 12 AWG, 9,GREY, DRUM                     | 72.000 in |

**AC Induction Motor Performance Data**

Record # 93306

Typical performance - not guaranteed values

| Winding: 09WGT597-R001 |    |           | Type: 0944M                              |                     | Enclosure: TEFC         |                  |       |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|------------------|-------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |                  |       |
| Rated Output (HP)      |    | 15        | Full Load Torque                         |                     | 44.59 LB-FT             |                  |       |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |                  |       |
| Full Load Amps         |    | 36.2/18.1 | Breakdown Torque                         |                     | 151 LB-FT               |                  |       |
| R.P.M.                 |    | 1765      | Pull-up Torque                           |                     | 76.5 LB-FT              |                  |       |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 84.9 LB-FT       |       |
| NEMA Design Code       |    | A         | KVA Code                                 | H                   |                         | Starting Current | 131 A |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 7.72 A                  |                  |       |
| NEMA Nom. Eff.         |    | 92.4      | Power Factor                             |                     | 84                      |                  |       |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |                  | 50°C  |
| S.F. Amps              |    | 41/20.4   | Temp. Rise @ S.F. Load                   |                     | 61°C                    |                  |       |
|                        |    |           | Locked-rotor Power Factor                |                     | 33.3                    |                  |       |

**Load Characteristics 460 V, 60 Hz, 15 HP**

| % of Rated Load | 25     | 50     | 75   | 100    | 125    | 150    | S.F. |
|-----------------|--------|--------|------|--------|--------|--------|------|
| Power Factor    | 46     | 68     | 78   | 83     | 85     | 86     | 84   |
| Efficiency      | 87.5   | 91.8   | 92.6 | 92.4   | 91.8   | 90.8   | 92   |
| Speed           | 1791.8 | 1784.7 | 1777 | 1768.8 | 1759.2 | 1749.3 | 1763 |
| Line amperes    | 8.82   | 11.3   | 14.6 | 18.3   | 22.4   | 26.9   | 20.8 |

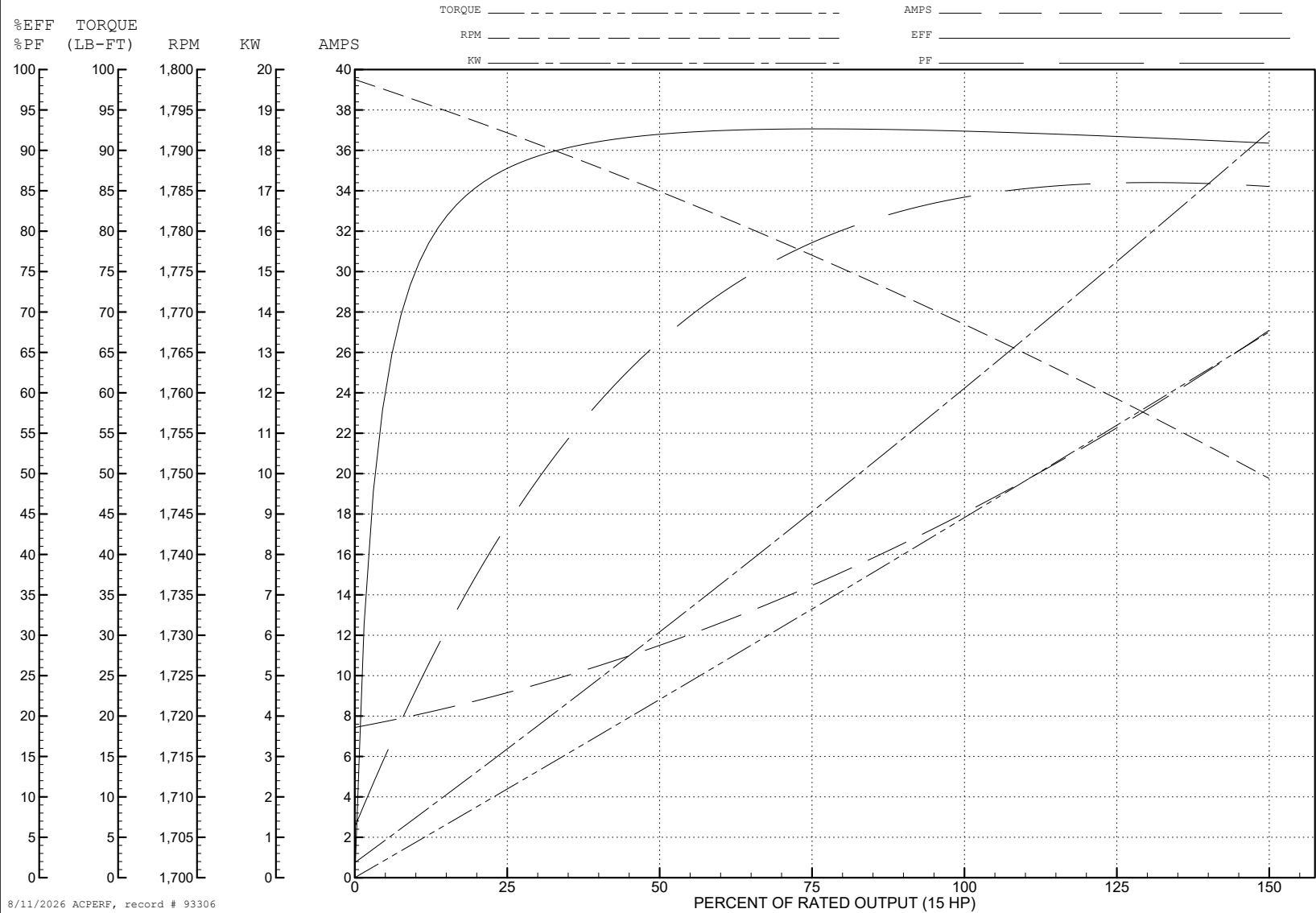
ABB Motors and Mechanical Inc.

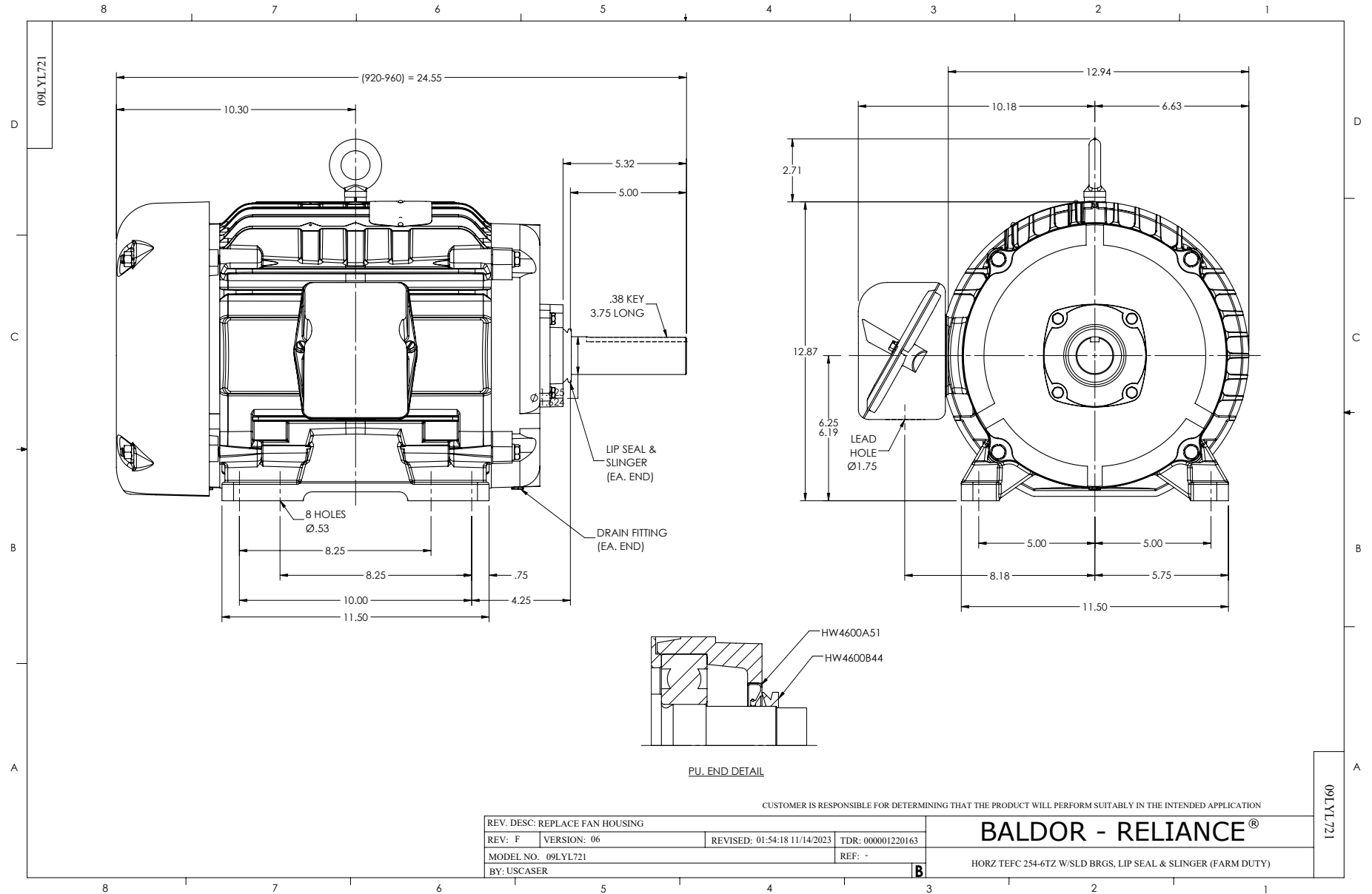
WINDING # 09WGT597

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=151 PU=76.5 LR=84.9 LRA=131





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
  - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
  - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
  - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005