

# ABB BALDOR RELIANCE III

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## Customer information packet

### VXT3034T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TEFC                                                        |
| Frame                          | 182TC                                                       |
| Frame Material                 | Iron                                                        |
| Frequency                      | 60.00 Hz                                                    |
| Haz Area Class and Group       | CLI GP A,B,C,D                                              |
| Haz Area Division              | Division II                                                 |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 3.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>208.0 V @ 60 HZ<br>230.0 V @ 60 HZ       |
| Agency Approvals               | UR<br>CCSA US<br>NEMA_PREMIUM<br>NEMA PREMIUM<br>CSA EEV    |
| 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                                                        |
| Constant Torque Speed Range    | 3                                                           |
| Current @ Voltage              | 4.100 A @ 460.0 V<br>8.200 A @ 230.0 V<br>8.600 A @ 208.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 89.5 %                                                      |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | C          |
| Type         | AC         |
| Mech. spec.  |            |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 06WGX181   |
| Layout       | 06LYH799   |
| Eff. date    | 06-28-2024 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#16       |
| Proprietary  | False      |
| Created date | 11-19-2020 |

|                                      |                           |
|--------------------------------------|---------------------------|
| <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                 |
| <b>High Voltage Full Load Amps</b>   | 4.1 a                     |
| <b>Insulation Class</b>              | F                         |
| <b>Inverter Code</b>                 | Inverter Duty             |
| <b>IP Rating</b>                     | NONE                      |
| <b>KVA Code</b>                      | J                         |
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs     |
| <b>Locked Bearing Indicator</b>      | Locked Bearing            |
| <b>Motor Lead Termination</b>        | Flying Leads              |
| <b>Motor Standards</b>               | NEMA                      |
| <b>Motor Type</b>                    | 0632M                     |
| <b>Mounting Arrangement</b>          | F1                        |
| <b>Number of Poles</b>               | 4                         |
| <b>Overall Length</b>                | 15.98 IN                  |
| <b>Power Factor</b>                  | 77                        |
| <b>Product Family</b>                | General Purpose           |
| <b>Pulley Face Code</b>              | C-Face                    |
| <b>Rodent Screen</b>                 | None                      |
| <b>Service Factor</b>                | 1.15                      |
| <b>Shaft Diameter</b>                | 1.125 IN                  |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding        |
| <b>Shaft Rotation</b>                | Reversible                |
| <b>Speed</b>                         | 1755 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**

| NP4163L                        |              |     |      |        |      |              |      |         |     |
|--------------------------------|--------------|-----|------|--------|------|--------------|------|---------|-----|
| CAT.NO.                        | VXT3034T     |     |      |        |      |              | I.P. | 54      |     |
| SPEC.                          | 06-0000-0797 |     |      |        |      |              | ENCL | TEFC    |     |
| FRAME                          | 182TC        |     |      | H.P.   | 3    |              |      |         |     |
| VOLTS                          | 208-230/460  |     |      | P.F.   | 77   |              |      |         |     |
| F.L. AMPS                      | 8.6-8.2/4.1  |     |      | RATING |      | 40C AMB-CONT |      |         |     |
| R.P.M.                         | 1755         |     |      |        |      |              |      |         |     |
| HZ.                            | 60           |     | PH.  | 3      |      | CLASS        |      | F       |     |
| SER.F.                         | 1.15         |     | DES. | B      |      | SL HZ        |      | 1.5     |     |
| NEMA NOM. EFF.                 | 89.5         |     |      | WK2    |      | 0.3          |      |         |     |
| DE                             | 6206         |     | ODE  |        | 6205 |              |      |         |     |
| MAG. CUR.                      | 4.2/2.1      |     |      |        |      |              |      |         |     |
| INV TYPE                       | PWM          | CHP | 60   |        | TO   | 90           |      | T. CODE | T3C |
| CT                             | 3            | TO  | 60   |        | VT   | 3            | TO   | 60      |     |
| CC                             | 010A         |     | SN   |        |      |              |      |         |     |
| USABLE AT 50 HZ 2.5HP 190/380V |              |     |      |        |      |              |      |         |     |
| 8.2/4.1A                       |              |     |      |        |      |              |      |         |     |

**Parts List**

| Part number  | Description                              | Quantity |
|--------------|------------------------------------------|----------|
| SA388655     | SA 06-0000-0797                          | 1.000 ea |
| RA379020     | RA 06-0000-0797                          | 1.000 ea |
| LB1624       | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| LC0005       | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING  | 1.000 ea |
| LB1449       | DIV-2/NEC WARNING LABEL                  | 1.000 ea |
| PK3082       | STYROFOAM CRADLE                         | 1.000 ea |
| NP4163L      | SS CP INV DIV-2 UL CSA-C US EEV PREM, DI | 1.000 ea |
| 85XU0407S04  | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| MN416A01     | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| HW3201A05    | 3/8-16 EYEBOLT                           | 1.000 ea |
| 36FH4009A101 | IEC FH NO GREASER, W/PRIMER              | 1.000 ea |
| 51XW1032A06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 ea |
| 34FN3002A02  | EXTERNAL FAN, PLASTIC, .905/.907 HUB W/  | 1.000 ea |
| 51XB0818A12  | 8-18X3/4 HXWSSLD SERTYB                  | 1.000 ea |
| MJ1000A02    | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| HA3101A34    | THRUBOLT- 1/4-20 X 10.375                | 4.000 ea |
| 36EP3104B47  | FREP MACH W/O GRSR,RAISED FH PADS,SLING  | 1.000 ea |
| HW4600B32SP  | V-RING SLINGER 1.000 X 1.540 X .24 VITON | 1.000 ea |
| HW5100A05    | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| HA4067A01    | PUSH IN DRAIN FITTING (BLACK)            | 1.000 ea |
| 36EP3301A34  | SPL PU. ENDPLATE - ENCLOSED              | 1.000 ea |
| HW4600B36SP  | V-RING SLINGER 1.188 X 1.380 X .24 VITON | 1.000 ea |
| 10XN2520A28  | 1/4-20X 1 3/4 HEX HD                     | 4.000 ea |
| HW1001A25    | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 ea |
| HA4067A01    | PUSH IN DRAIN FITTING (BLACK)            | 1.000 ea |
| 06CB3000     | BALDOR CONDUIT BOX CAST                  | 1.000 ea |
| 06GS1000     | GASKET,CONDUIT BOX                       | 1.000 ea |
| 51XW2520A12  | SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75  | 2.000 ea |
| 11XW1032G06  | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B02    | BRASS CUP WASHER W/GROUND SYMBOL TAB,    | 1.000 ea |
| 06CB3500     | BALDOR CONDUIT BOX LID                   | 1.000 ea |

|             |                                         |          |
|-------------|-----------------------------------------|----------|
| 06GS1001    | BALDOR CONDUIT BOX GASKET               | 1.000 ea |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 2.000 ea |
| MG1025L14   | WILKOFAS, 776.14, GRUNDFOS BLACK        | 0.125 ga |
| 36PA1001    | PKG GRP, PRINT PK1017A07                | 1.000 ea |
| HW2501E16   | KEY, 1/4 SQ X 1.750                     | 1.000 ea |
| HA7000A02   | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 ea |
| FE-0000001  | ZRTG FE ASSEMBLY                        | 1.000 ea |

**AC Induction Motor Performance Data**

Record # 46998

Typical performance - not guaranteed values

| Winding: 06WGX181-R047 |    |             | Type: 0632M                              |                     | Enclosure: TEFC         |            |              |
|------------------------|----|-------------|------------------------------------------|---------------------|-------------------------|------------|--------------|
| Nameplate Data         |    |             | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |            |              |
| Rated Output (HP)      |    | 3           | Full Load Torque                         |                     | 9.06 LB-FT              |            |              |
| Volts                  |    | 208-230/460 | Start Configuration                      |                     | direct on line          |            |              |
| Full Load Amps         |    | 8.6-8.2/4.1 | Breakdown Torque                         |                     | 33.1 LB-FT              |            |              |
| R.P.M.                 |    | 1755        | Pull-up Torque                           |                     | 18.2 LB-FT              |            |              |
| Hz                     | 60 | Phase       | 3                                        | Locked-rotor Torque |                         | 20.4 LB-FT |              |
| NEMA Design Code       |    | B           | KVA Code                                 | J                   | Starting Current        |            | 29.8 A       |
| Service Factor (S.F.)  |    | 1.15        | No-load Current                          |                     | 2.14 A                  |            |              |
| NEMA Nom. Eff.         |    | 89.5        | Power Factor                             | 77                  | Line-line Res. @ 25°C   |            | 3.92 Ω       |
| Rating - Duty          |    | 40C         | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |            | 35°C         |
| S.F. Amps              |    |             |                                          |                     | Temp. Rise @ S.F. Load  |            | 42°C         |
|                        |    |             |                                          |                     | Rotor inertia           |            | 0.298 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 3 HP**

| % of Rated Load | 25     | 50     | 75     | 100  | 125    | 150  | S.F. |
|-----------------|--------|--------|--------|------|--------|------|------|
| Power Factor    | 38     | 58     | 70     | 77   | 81     | 83   | 79   |
| Efficiency      | 83.6   | 88.9   | 90.1   | 89.9 | 89.1   | 87.8 | 89.4 |
| Speed           | 1789.5 | 1779.3 | 1768.8 | 1757 | 1744.4 | 1730 | 1749 |
| Line amperes    | 2.34   | 2.79   | 3.39   | 4.1  | 4.91   | 5.86 | 4.59 |

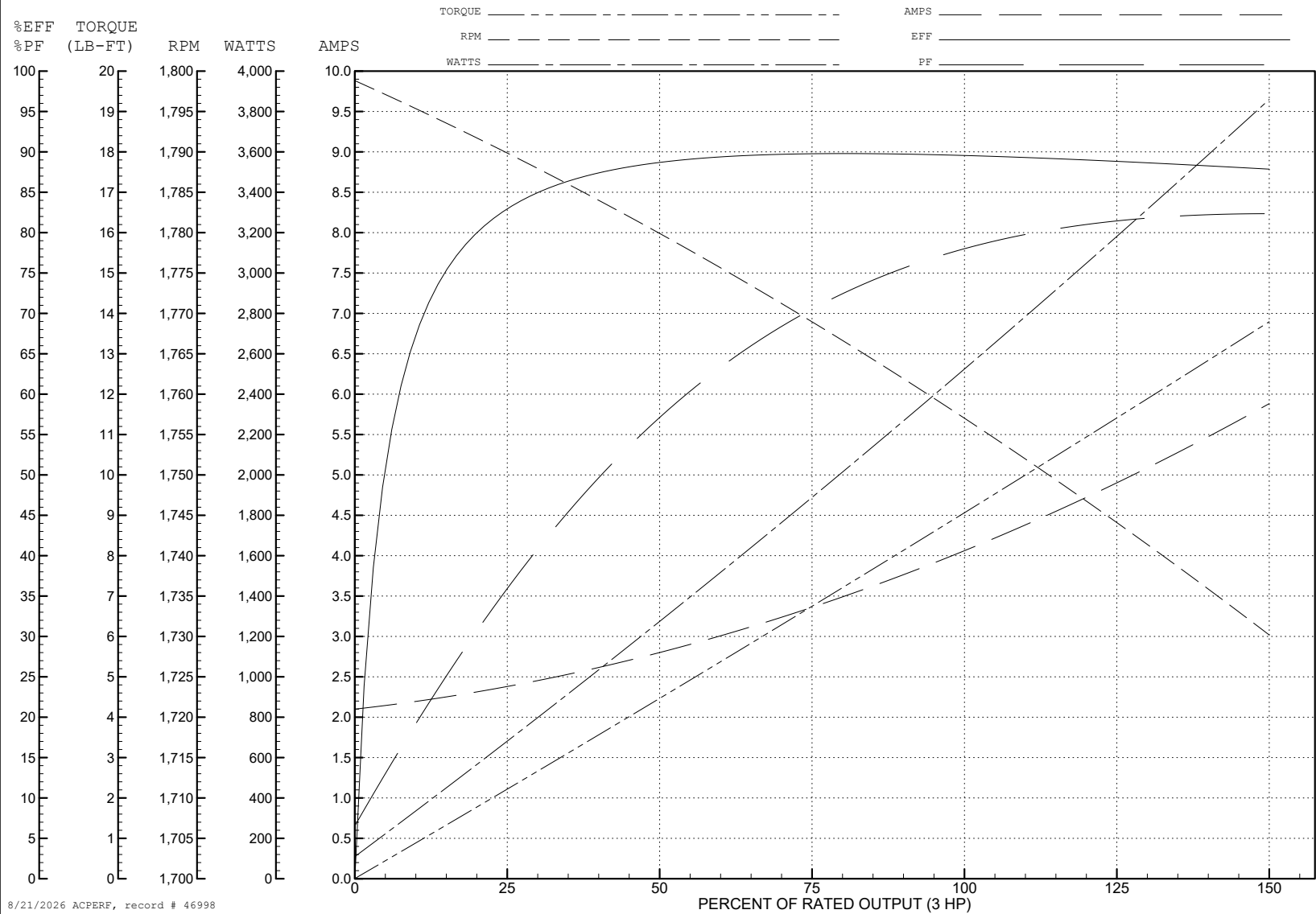
ABB Motors and Mechanical Inc.

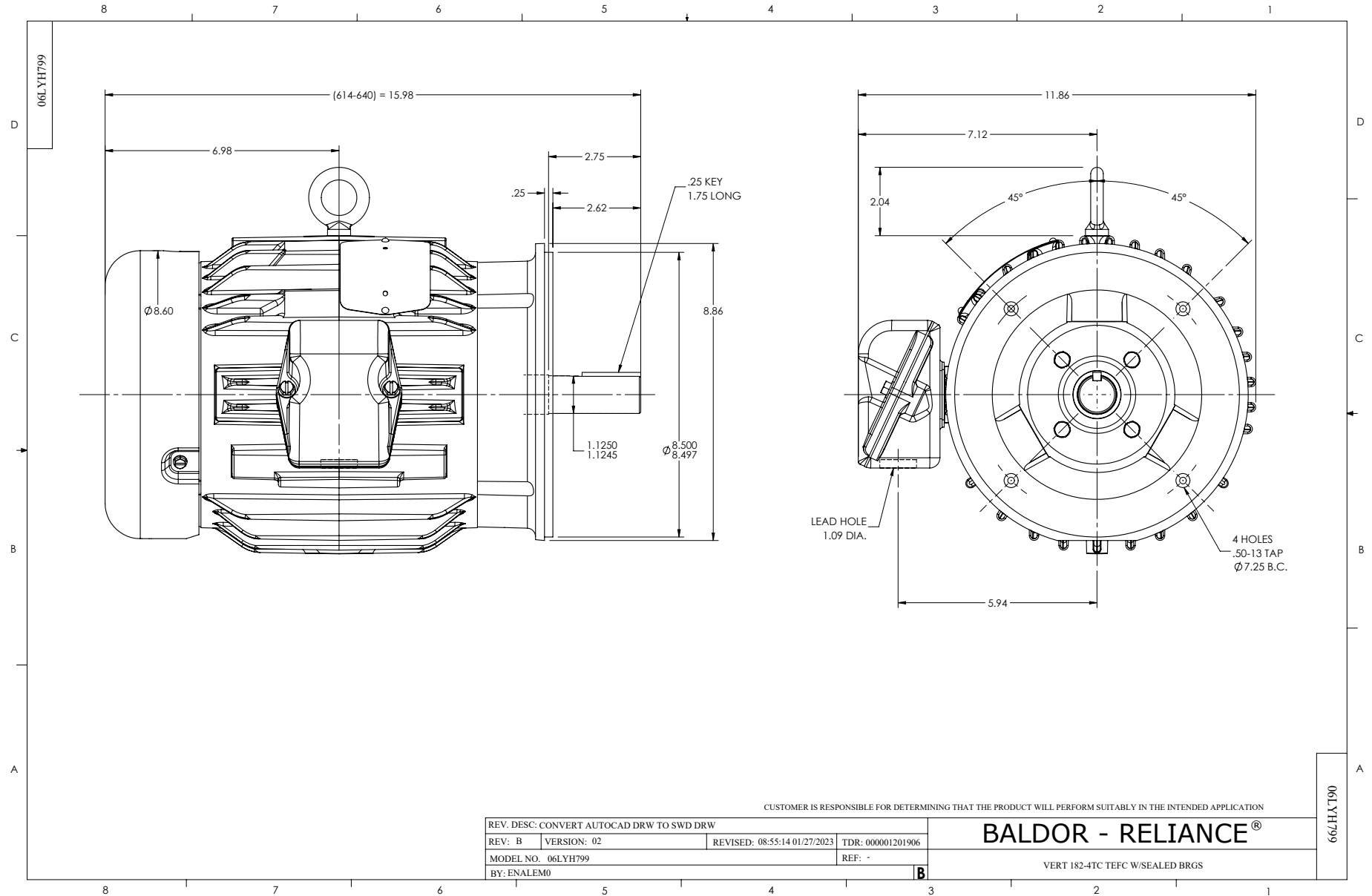
WINDING # 06WGX181

Typical performance - not guaranteed values.

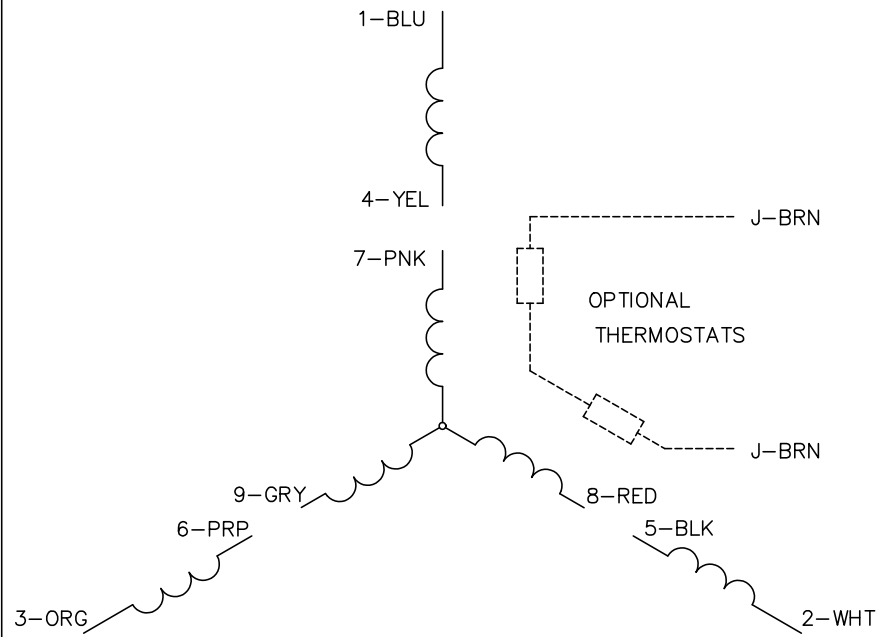
3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8





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 |
| S00000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

**BALDOR ELECTRIC Co.**

3PH, DV, 9 LEADS

CD0005