

# ABB BALDOR RELIANCE III

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## Customer information packet

### CTM1760T

10/2.5HP, 1760/875RPM, 3PH, 60HZ, 0748M, N

Class - None

Division - Not Applicable

**Specifications**

|                                |                                       |
|--------------------------------|---------------------------------------|
| Enclosure                      | TEFC                                  |
| Frame                          | 213T                                  |
| Frame Material                 | Iron                                  |
| Frequency                      | 60.00 Hz                              |
| Haz Area Class and Group       | None                                  |
| Haz Area Division              | Not Applicable                        |
| Motor Letter Type              | Three Phase                           |
| Output @ Frequency             | 2.500 HP @ 60 HZ<br>10.000 HP @ 60 HZ |
| Phase                          | 3                                     |
| Synchronous Speed @ Frequency  | 900 RPM @ 60 HZ                       |
| Voltage @ Frequency            | 460.0 V @ 60 HZ                       |
| Agency Approvals               | UR<br>CSA                             |
| Ambient Temperature            | 40 °C                                 |
| Auxiliary Box                  | NO AUXILLARY BOX                      |
| Auxiliary Box Lead Termination | None                                  |
| Base Indicator                 | Rigid                                 |
| Bearing Grease Type            | Polyrex EM (-20F +300F)               |
| Blower                         | None                                  |
| Current @ Voltage              | 12.800 A @ 460.0 V                    |
| Design Code                    | B                                     |
| Drip Cover                     | No Drip Cover                         |
| Duty Rating                    | CONT                                  |
| Electrically Isolated Bearing  | Not Electrically Isolated             |
| Feedback Device                | NO FEEDBACK                           |
| Front Shaft Indicator          | None                                  |
| Heater Indicator               | No Heater                             |
| High Voltage Full Load Amps    | 4.8 a                                 |
| Insulation Class               | F                                     |
| Inverter Code                  | Not Inverter                          |
| KVA Code                       | K                                     |

**Part Detail**

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 07N044     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 07WGZ112   |
| Layout       | 07LYN044   |
| Eff. date    | 07-08-2025 |
| CD Diagram   | CD0032     |
| Poles        | 04/08      |
| Leads        | 6#14       |
| Proprietary  | False      |
| Created date | 12-14-2020 |

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Lifting Lugs</b>                  | Standard Lifting Lugs        |
| <b>Locked Bearing Indicator</b>      | No Locked Bearing            |
| <b>Motor Lead Quantity/Wire Size</b> | 6 @ 14 AWG                   |
| <b>Motor Lead Termination</b>        | Flying Leads                 |
| <b>Motor Standards</b>               | NEMA                         |
| <b>Motor Type</b>                    | 0748M                        |
| <b>Mounting Arrangement</b>          | F1                           |
| <b>Number of Poles</b>               | 4<br>8                       |
| <b>Overall Length</b>                | 19.32 IN                     |
| <b>Product Family</b>                | Chemical Processing (Not DC) |
| <b>Pulley End Bearing Type</b>       | Ball                         |
| <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>                | 1.375 IN                     |
| <b>Shaft Ground Indicator</b>        | No Shaft Grounding           |
| <b>Shaft Rotation</b>                | Reversible                   |
| <b>Shaft Slinger Indicator</b>       | Shaft Slinger                |
| <b>Speed</b>                         | 1760 rpm<br>875 rpm          |
| <b>Speed Code</b>                    | 2S-1W-VT                     |
| <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

| NP2134       |              |      |  |      |     |    |   |    |   |
|--------------|--------------|------|--|------|-----|----|---|----|---|
| CAT.NO.      | CTM1760T     |      |  |      |     |    |   |    |   |
| SPEC.        | 07N044Z112G1 |      |  |      |     |    |   |    |   |
| HP           | 10/2.5       |      |  |      |     |    |   |    |   |
| VOLTS        | 460          |      |  |      |     |    |   |    |   |
| AMP          | 12.8/4.8     |      |  |      |     |    |   |    |   |
| RPM          | 1760/875     |      |  |      |     |    |   |    |   |
| FRAME        | 213T         | HZ   |  | 60   |     | PH |   | 3  |   |
| SER.F.       | 1.15         | CODE |  | K    | DES |    | B | CL | F |
| NEMA-NOM-EFF | PF           |      |  |      |     |    |   |    |   |
| RATING       | 40C AMB-CONT |      |  |      |     |    |   |    |   |
| CC           |              |      |  |      |     |    |   |    |   |
| DE           | 6307         | ODE  |  | 6206 |     |    |   |    |   |
| ENCL         | TEFC         | SN   |  |      |     |    |   |    |   |
|              | SFA 14.7/5.4 |      |  |      |     |    |   |    |   |

**Parts List**

| Part number   | Description                              | Quantity |
|---------------|------------------------------------------|----------|
| SA388842      | SA 07N044Z112G1                          | 1.000 ea |
| RA379206      | RA 07N044Z112G1                          | 1.000 ea |
| 37FN3002A01SP | EXFN, PLASTIC, 9.00 OD, 1.155 ID         | 1.000 ea |
| HW3201A05     | 3/8-16 EYEBOLT                           | 1.000 ea |
| RM1017        | LEAD SEPERATOR GASKET MODEL 307 1/8" THK | 1.000 ea |
| 09CB1002A05G  | CONDUIT BOX, 1.00 N.P.T. (GRAY)          | 1.000 ea |
| 51XW2520A12   | .25-20 X .75, TAPTITE II, HEX WSHR SLTD  | 2.000 ea |
| 11XW1032G06   | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 ea |
| HW3001B01     | BRASS CUP WASHER, FOR #10 SCREW          | 1.000 ea |
| 10XN2520S06   | 1/4 20X3/8 HX HD CAP S.S.                | 1.000 ea |
| WD1000B16     | T&B CX70TN OR L70P TERMINAL LUG          | 1.000 ea |
| 37EP1100A72G  | FR ENDPLATE, MACH W/GRAY EPOXY           | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HA4054        | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HW4600A01     | #11585 SEAL(C-R),2669 NAT                | 1.000 ea |
| HW5100A06     | W2420-025 WVY WSHR (WB)                  | 1.000 ea |
| 37EP1101A60G  | PU EP 07 BRG W/GRS, RELIEF, DRAIN PLUG & | 1.000 ea |
| HW4500A01     | 1641B(ALEMITE)400 UNIV, GREASE FITT      | 1.000 ea |
| HA4051A00     | PLASTIC CAP FOR GREASE FITTING           | 1.000 ea |
| HW4500A17     | 317400 ALEMITE GREASE RELIEF             | 1.000 ea |
| HW4600B51     | SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB | 1.000 ea |
| HA4054        | SHORT T-DRAIN FITTING, .125" N.P.T.      | 1.000 ea |
| HA3104A32     | THRUBOLT- 5/16-18 X12.750                | 4.000 ea |
| XY3118A12     | 5/16-18 HEX NUT DIRECTIONAL SERRATION    | 4.000 ea |
| 51XB1214A20   | 12-14X1.25 HXWSSL D SERTYB               | 1.000 ea |
| 10XN2520A28   | 1/4-20X 1 3/4 HEX HD                     | 3.000 ea |
| 07FH1001A01G  | SPL FAN HOUSING, 307, W/GREASER, GRAY EP | 1.000 ea |
| WD4100A02     | DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL  | 1.000 ea |
| 12CB1503G     | CONDUIT BOX CAST. (GRAY)                 | 1.000 ea |

|               |                                          |          |
|---------------|------------------------------------------|----------|
| 12GS1002      | GASKET, CONDUIT BOX LID, NEOP            | 1.000 ea |
| 10XN2520A24   | 1/4-20X 1 1/2 HEX HD X                   | 2.000 ea |
| HW1001A25     | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 2.000 ea |
| HA1005A02     | SLINGER, OD 2.00, ID 1.14, 206 BRG,      | 1.000 ea |
| HW4600B33     | V-RING SLINGER 1.375 X 1.890 X .35 VITON | 1.000 ea |
| HW2501F21     | KEY, 5/16 SQ X 2.375                     | 1.000 ea |
| HA7000A02     | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA  | 1.000 ea |
| MJ5001A27     | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL  | 0.001 qt |
| 85XU0407S04   | 4X1/4 U DRIVE PIN STAINLESS              | 2.000 ea |
| LB1624        | COMBINED WARNING LABEL, ISO/ANSI PICTOGR | 1.000 ea |
| MJ1000A02     | GREASE, POLYREX EM EXXON                 | 0.050 lb |
| 37FN3002A01SP | EXFN, PLASTIC, 9.00 OD, 1.155 ID         | 1.000 ea |
| MG1025N19     | WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8  | 0.036 ga |
| LC0032        | CONNECTION LABEL                         | 1.000 ea |
| MN416A01      | TAG-INSTAL-MAINT no wire (2500 bx)11/25  | 1.000 ea |
| NP2134        | SS CP SUPER-E UL ENERGY CC REV MTG       | 1.000 ea |
| 07PA1011      | PKG GRP, 07 CAST IRON PK1181             | 1.000 ea |

ABB Motors and Mechanical Inc.

WINDING # 07WGZ112

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1759 RPM 460 V 0748M

TORQUES (LB-FT): PO=104 PU=40.34 LR=91.1 LRA=108

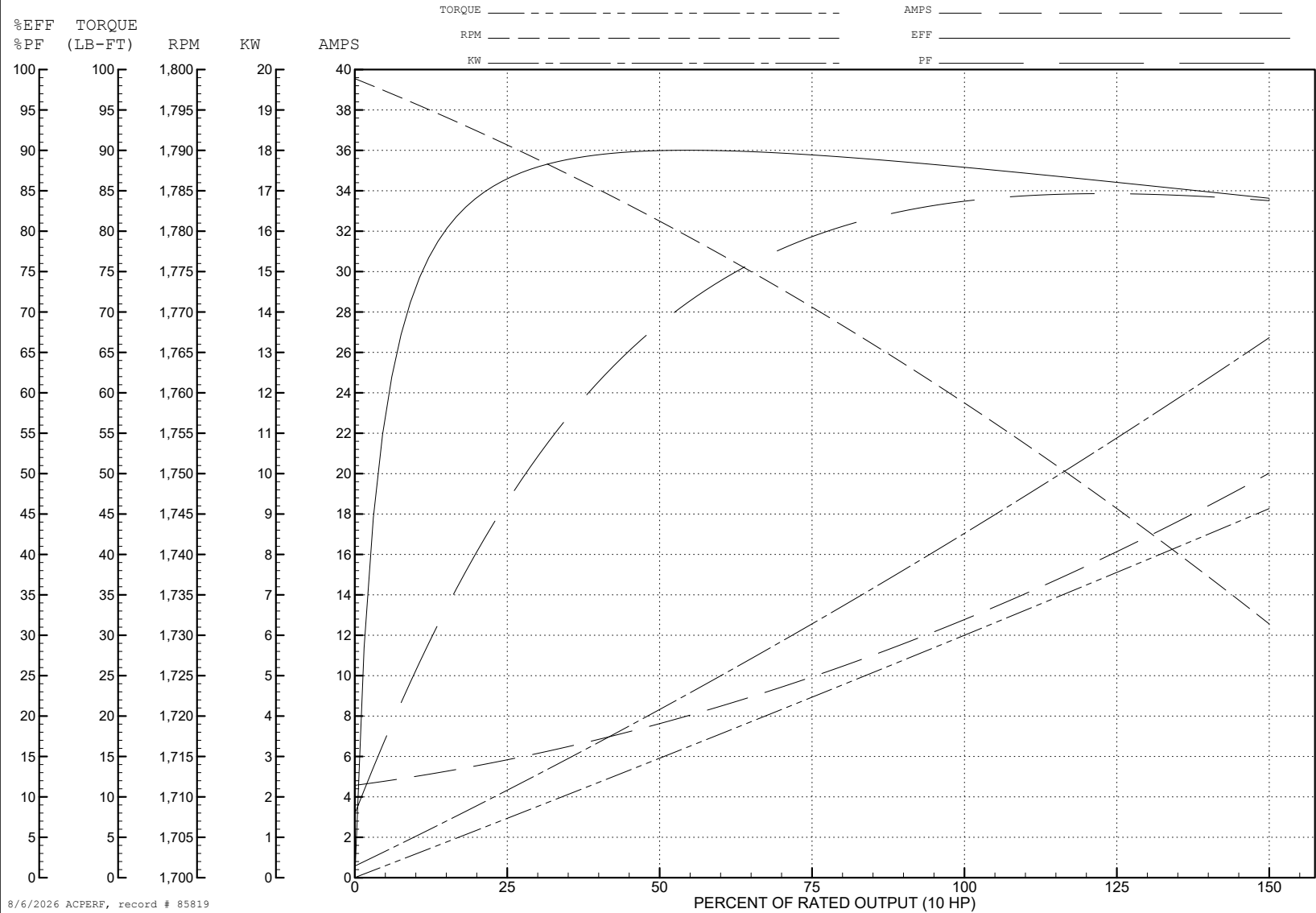


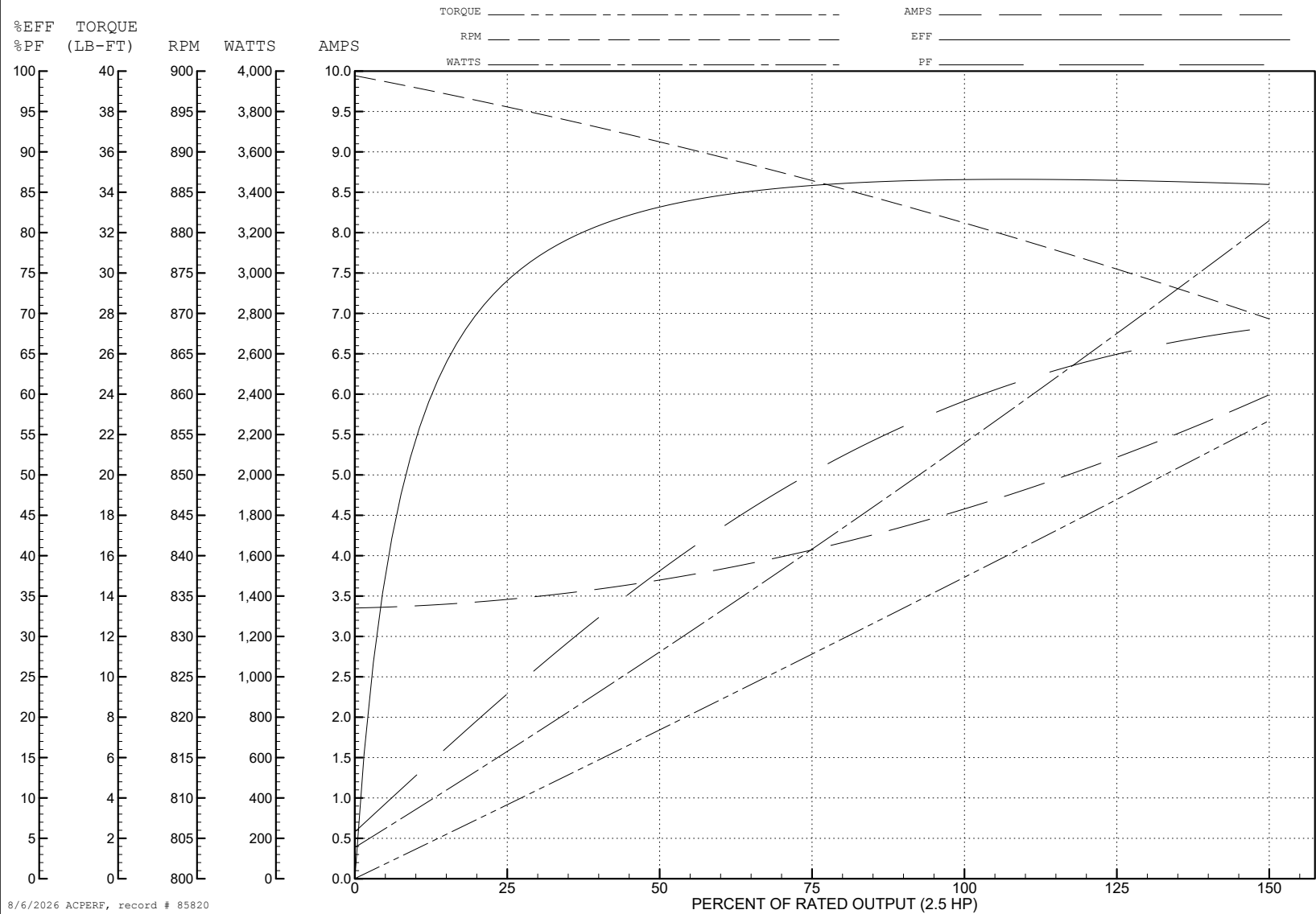
ABB Motors and Mechanical Inc.

WINDING # 07WGZ112

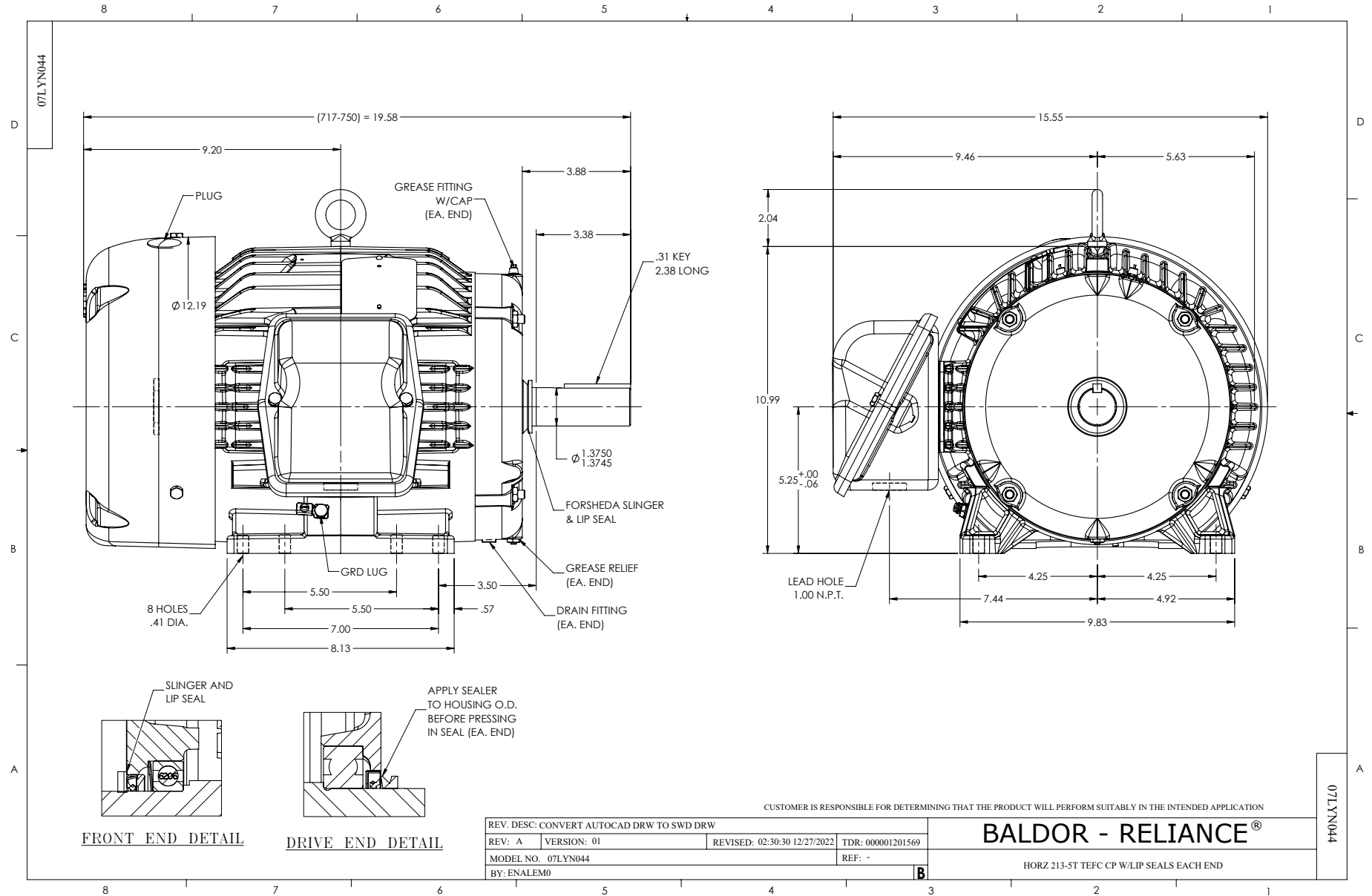
Typical performance - not guaranteed values.

2.5 HP 3 PH 60 HZ 881.4 RPM 460 V 0748M

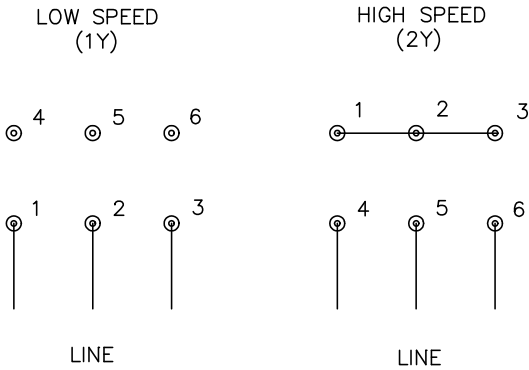
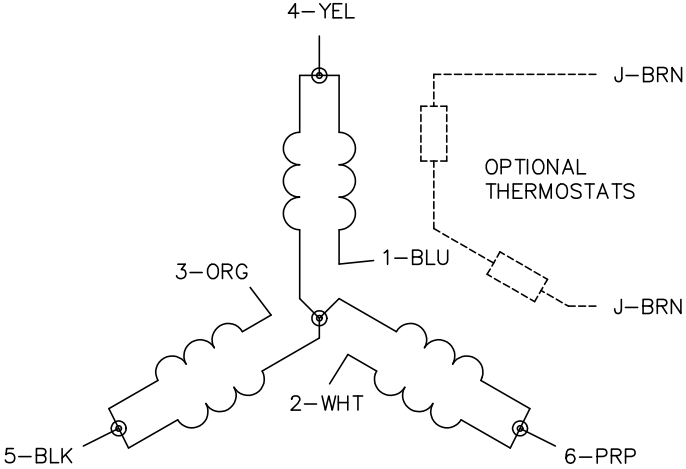
TORQUES (LB-FT): PO=36.1 PU=17.3 LR=27.1 LRA=18.6







CD0032



- 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: 01/22/99 8:27 | TDR: 0171435 |
| CD0032                                    |         | FILE: AAA00005145      | MDL: -       |
|                                           |         | MTL: -                 |              |

**BALDOR ELECTRIC Co.**

3PH, SV, 6 LEADS, 2-SPEED 1-WINDING VARIABLE TORQUE

CD0032