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# Customer information packet

## EM3708T

5HP, 1165RPM, 3PH, 60HZ, 215T, 3752M, TEFC, F1

Class - None

Division - Not Applicable

## Specifications

|                                |                                                               |
|--------------------------------|---------------------------------------------------------------|
| Enclosure                      | TEFC                                                          |
| Frame                          | 215T                                                          |
| Frame Material                 | Steel                                                         |
| Frequency                      | 60.00 Hz                                                      |
| Haz Area Class and Group       | None                                                          |
| Haz Area Division              | Not Applicable                                                |
| Motor Letter Type              | Three Phase                                                   |
| Output @ Frequency             | 5.000 HP @ 60 HZ                                              |
| Phase                          | 3                                                             |
| Synchronous Speed @ Frequency  | 1200 RPM @ 60 HZ                                              |
| Voltage @ Frequency            | 230.0 V @ 60 HZ<br>460.0 V @ 60 HZ                            |
| Agency Approvals               | CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR                 |
| 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              | 7.200 A @ 460.0 V<br>15.600 A @ 208.0 V<br>14.400 A @ 230.0 V |
| Design Code                    | A                                                             |
| Drip Cover                     | No Drip Cover                                                 |
| Duty Rating                    | CONT                                                          |
| Efficiency @ 100% Load         | 89.5 %                                                        |
| Electrically Isolated Bearing  | Not Electrically Isolated                                     |
| Feedback Device                | NO FEEDBACK                                                   |
| Front Face Code                | Standard                                                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | H          |
| Type         | AC         |
| Mech. spec.  | 37H244     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 37WGQ067   |
| Layout       | 37LYH244   |
| Eff. date    | 07-28-2025 |
| CD Diagram   | CD0005     |
| Poles        | 06         |
| Leads        | 9#14 Y     |
| Proprietary  | False      |
| Created date | 08-02-2017 |

|                               |                       |
|-------------------------------|-----------------------|
| Front Shaft Indicator         | None                  |
| Heater Indicator              | No Heater             |
| High Voltage Full Load Amps   | 7.2 a                 |
| Insulation Class              | F                     |
| Inverter Code                 | Inverter Ready        |
| KVA Code                      | K                     |
| Lifting Lugs                  | Standard Lifting Lugs |
| Locked Bearing Indicator      | No Locked Bearing     |
| Motor Lead Exit               | Ko Box                |
| Motor Lead Quantity/Wire Size | 9 @ 14 AWG            |
| Motor Lead Termination        | Flying Leads          |
| Motor Standards               | NEMA                  |
| Motor Type                    | 3752M                 |
| Mounting Arrangement          | F1                    |
| Number of Poles               | 6                     |
| Overall Length                | 20.52 IN              |
| Power Factor                  | 71                    |
| Product Family                | General Purpose       |
| Pulley End Bearing Type       | Ball                  |
| Pulley Face Code              | Standard              |
| Pulley Shaft Indicator        | Standard              |
| Rodent Screen                 | None                  |
| RoHS Status                   | ROHS COMPLIANT        |
| Service Factor                | 1.15                  |
| Shaft Diameter                | 1.375 IN              |
| Shaft Extension Location      | Pulley End            |
| Shaft Ground Indicator        | No Shaft Grounding    |
| Shaft Rotation                | Reversible            |
| Shaft Slinger Indicator       | No Slinger            |
| Speed                         | 1165 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          | None                |
| Winding Thermal 2          | None                |

## Nameplate

| NP3441LUA                 |              |                |     |      |   |       |   |  |  |
|---------------------------|--------------|----------------|-----|------|---|-------|---|--|--|
| CAT.NO.                   | EM3708T      |                |     |      |   |       |   |  |  |
| SPEC                      | 37H244Q067G1 |                |     |      |   |       |   |  |  |
| HP                        | 5            |                |     |      |   |       |   |  |  |
| VOLTS                     | 230/460      |                |     |      |   |       |   |  |  |
| AMPS                      | 14.4/7.2     |                |     |      |   |       |   |  |  |
| RPM                       | 1165         |                |     |      |   |       |   |  |  |
| FRAME                     | 215T         |                | HZ  | 60   |   | PH    | 3 |  |  |
| SF                        | 1.15         | CODE           | K   | DES  | A | CLASS | F |  |  |
| NEMA NOM. EFF             | 89.5         | PF             | 71  |      |   |       |   |  |  |
| RATING                    | 40C AMB-CONT |                |     |      |   |       |   |  |  |
| CC                        | 010A         |                |     |      |   |       |   |  |  |
| ENCL                      | TEFC         | SER            |     |      |   |       |   |  |  |
| DE                        | 6307         |                | ODE | 6206 |   |       |   |  |  |
| VPWM INVERTER READY       |              | SFA 16.66/8.33 |     |      |   |       |   |  |  |
| CT6-60H(10:1)VT3-60H(20:1 |              |                |     |      |   |       |   |  |  |

**Accessories**

| Part number | Description | Multiplier |
|-------------|-------------|------------|
| 37-3301     | C FACE KIT  | P1         |

## AC Induction Motor Performance Data

Record # 67641

Typical performance - not guaranteed values

| Winding: 37WGQ067-R001 |    |              |              | Type: 3752M                              |                       | Enclosure: TEFC |                  |        |
|------------------------|----|--------------|--------------|------------------------------------------|-----------------------|-----------------|------------------|--------|
| Nameplate Data         |    |              |              | 460 V, 60 Hz:<br>High Voltage Connection |                       |                 |                  |        |
| Rated Output (HP)      |    | 5            |              | Full Load Torque                         |                       | 22.48 LB-FT     |                  |        |
| Volts                  |    | 230/460      |              | Start Configuration                      |                       | direct on line  |                  |        |
| Full Load Amps         |    | 14.4/7.2     |              | Breakdown Torque                         |                       | 80.1 LB-FT      |                  |        |
| R.P.M.                 |    | 1165         |              | Pull-up Torque                           |                       | 51.2 LB-FT      |                  |        |
| Hz                     | 60 | Phase        | 3            | Locked-rotor Torque                      |                       | 55.8 LB-FT      |                  |        |
| NEMA Design Code       |    | A            |              | KVA Code                                 | K                     |                 | Starting Current | 54.4 A |
| Service Factor (S.F.)  |    | 1.15         |              | No-load Current                          |                       | 3.98 A          |                  |        |
| NEMA Nom. Eff.         |    | 89.5         | Power Factor | 71                                       | Line-line Res. @ 25°C |                 | 3.6757 Ω         |        |
| Rating - Duty          |    | 40C AMB-CONT |              | Temp. Rise @ Rated Load                  |                       | 59°C            |                  |        |
| S.F. Amps              |    |              |              | Temp. Rise @ S.F. Load                   |                       | 73°C            |                  |        |
|                        |    |              |              | Locked-rotor Power Factor                |                       | 21.9            |                  |        |

## Load Characteristics 460 V, 60 Hz, 5 HP

| % of Rated Load | 25     | 50     | 75     | 100    | 125  | 150    | S.F. |
|-----------------|--------|--------|--------|--------|------|--------|------|
| Power Factor    | 33     | 52     | 64     | 70     | 74   | 76     | 72   |
| Efficiency      | 84.4   | 89.3   | 90.2   | 89.7   | 88.6 | 87.1   | 89   |
| Speed           | 1191.6 | 1183.1 | 1174.9 | 1164.8 | 1154 | 1141.3 | 1158 |
| Line amperes    | 4.28   | 5.07   | 6.08   | 7.39   | 8.87 | 10.6   | 8.28 |

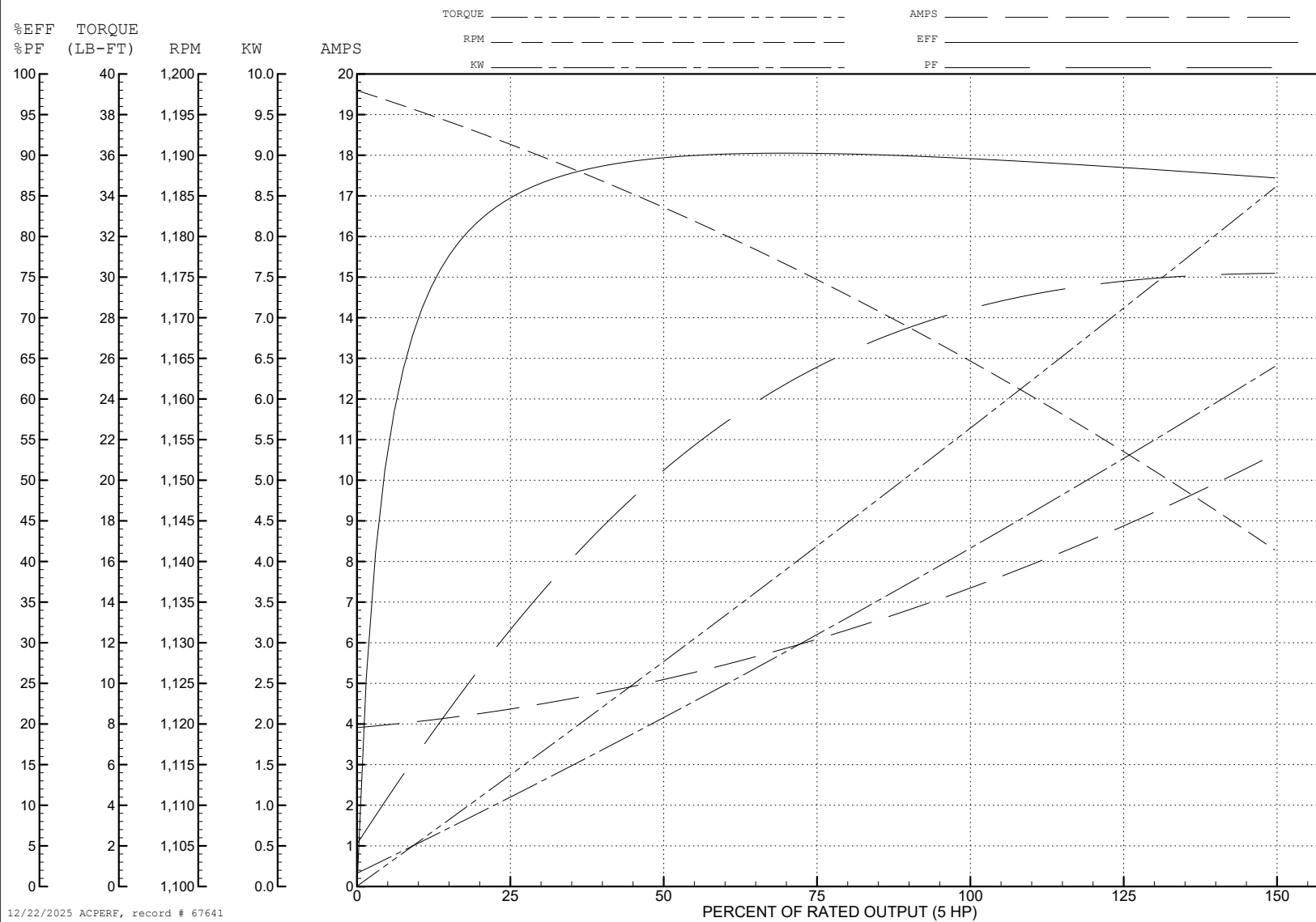
ABB Motors and Mechanical Inc.

WINDING # 37WGQ067

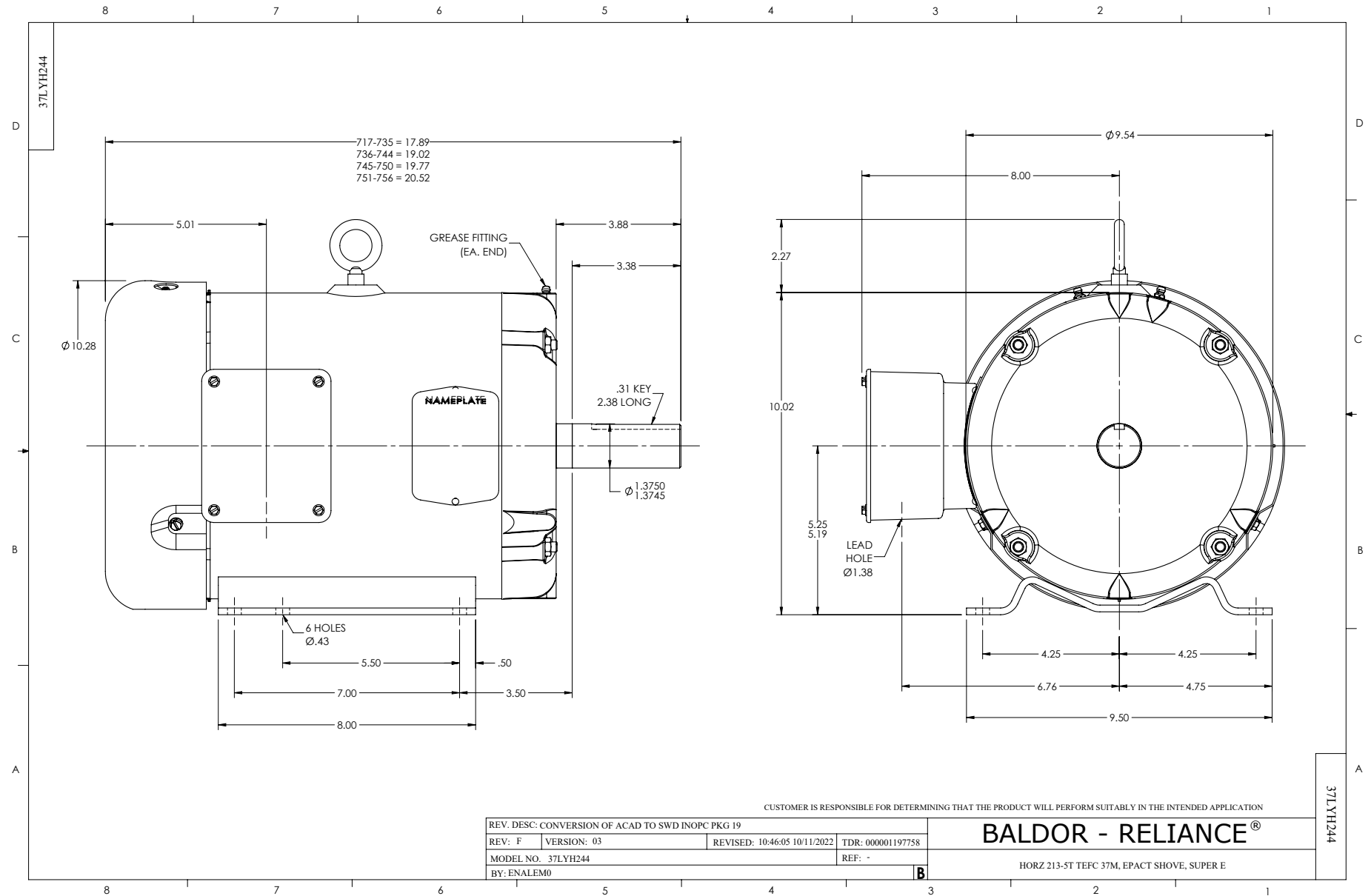
Typical performance - not guaranteed values.

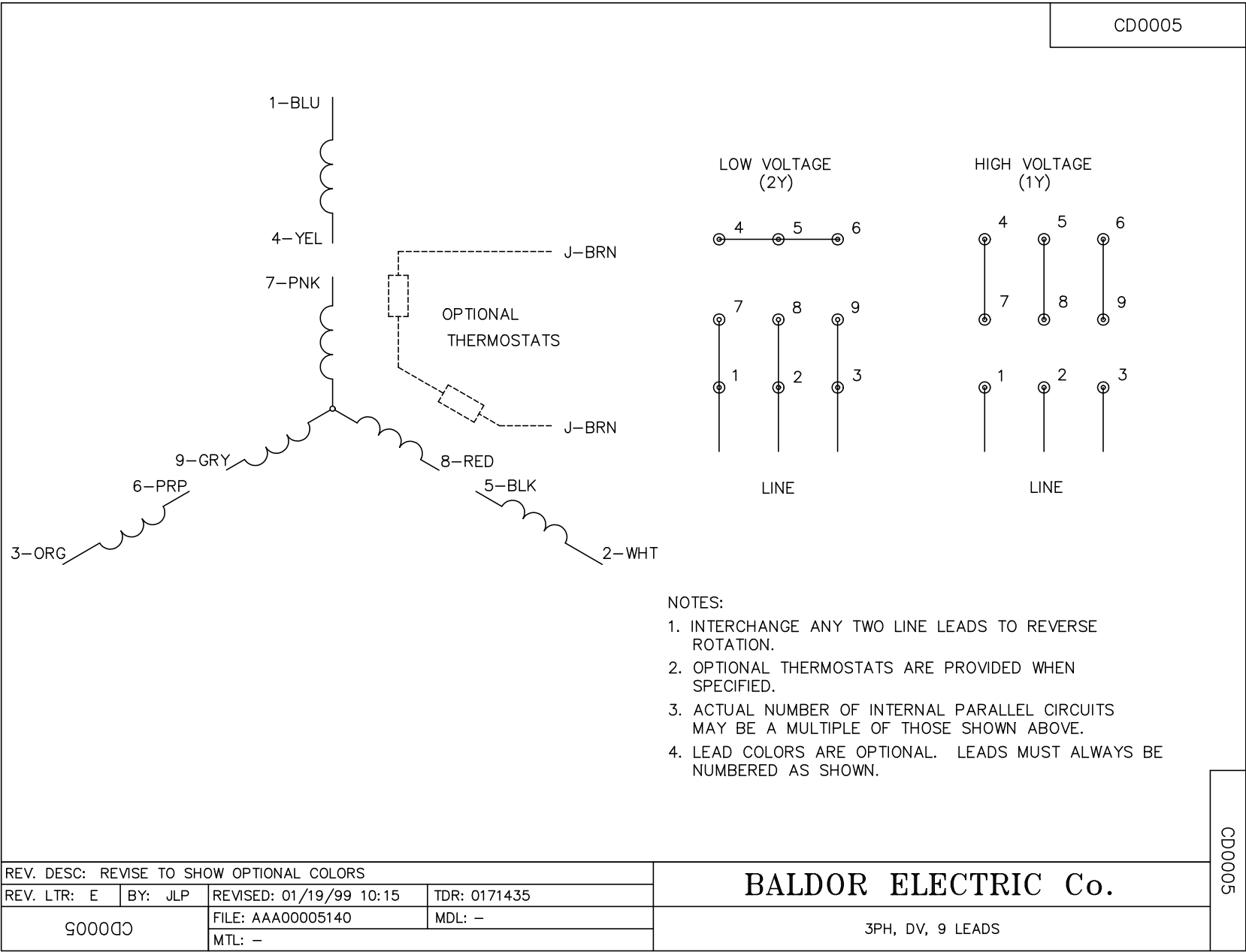
5 HP 3 PH 60 HZ 1165 RPM 460 V 3752M

TORQUES (LB-FT): PO=80.1 PU=51.2 LR=55.8 LRA=54.4









CD0005