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# Customer information packet

## EBNM3546-D

1/.75KWHP, 1770 1/MINRPM, 3PH, 60HZ, 56, 3522

Class - None

Division - Not Applicable

## Specifications

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Enclosure                      | TENV                                                        |
| Frame                          | 56                                                          |
| Frame Material                 | Steel                                                       |
| Frequency                      | 60.00 Hz                                                    |
| Motor Letter Type              | Three Phase                                                 |
| Output @ Frequency             | 1.000 HP @ 60 HZ                                            |
| Phase                          | 3                                                           |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                            |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>230.0 V @ 60 HZ                          |
| XP Class and Group             | None                                                        |
| XP Division                    | Not Applicable                                              |
| Agency Approvals               | CE<br>CSA EEV<br>NEMA PREMIUM<br>NEMA_PREMIUM<br>UR<br>WEEE |
| Ambient Temperature            | 40 °C                                                       |
| Auxillary Box                  | No Auxillary Box                                            |
| Auxillary Box Lead Termination | None                                                        |
| Base Indicator                 | Rigid                                                       |
| Bearing Grease Type            | Polyrex EM (-20F +300F)                                     |
| Blower                         | None                                                        |
| Current @ Voltage              | 3.340 A @ 230.0 V<br>3.300 A @ 208.0 V<br>1.670 A @ 460.0 V |
| Design Code                    | B                                                           |
| Drip Cover                     | No Drip Cover                                               |
| Duty Rating                    | CONT                                                        |
| Efficiency @ 100% Load         | 85.5 %                                                      |
| Electrically Isolated Bearing  | Not Electrically Isolated                                   |

## Part detail

|              |            |
|--------------|------------|
| Revision     | B          |
| Type         | AC         |
| Mech. spec.  | 35X056     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 35WGZ818   |
| Layout       | 35LYX056   |
| Eff. date    | 07-14-2022 |
| CD Diagram   | CD0005     |
| Poles        | 04         |
| Leads        | 9#18       |
| Proprietary  | False      |
| Created date | 01-10-2022 |

|                               |                     |
|-------------------------------|---------------------|
| Feedback Device               | NO FEEDBACK         |
| Front Shaft Indicator         | None                |
| Heater Indicator              | No Heater           |
| High Voltage Full Load Amps   | 1.7 a               |
| Insulation Class              | F                   |
| Inverter Code                 | Inverter Ready      |
| KVA Code                      | M                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Quantity/Wire Size | 9 @ 18 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3522M               |
| Mounting Arrangement          | F3                  |
| Number of Poles               | 4                   |
| Overall Length                | 15.96 IN            |
| Power Factor                  | 66                  |
| Product Family                | General Purpose     |
| Pulley End Bearing Type       | Ball                |
| Pulley Face Code              | Standard            |
| Pulley Shaft Indicator        | Standard            |
| Rodent Screen                 | None                |
| Service Factor                | 1.15                |
| Shaft Diameter                | 0.625 IN            |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1770 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                |

|                          |             |
|--------------------------|-------------|
| <b>Winding Thermal 2</b> | <b>None</b> |
|--------------------------|-------------|

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## Nameplate

| NP2934L      |                             |  |      |      |                |    |     |   |  |
|--------------|-----------------------------|--|------|------|----------------|----|-----|---|--|
| CAT.NO.      | EBNM3546-D                  |  |      |      |                |    |     |   |  |
| SPEC.        | 35X056Z818G1                |  |      |      |                |    |     |   |  |
| HP           | 1/.75KW                     |  |      |      |                |    |     |   |  |
| VOLTS        | 230/460                     |  |      |      |                |    |     |   |  |
| AMP          | 3.34/1.67 IP44 IC410 22KG   |  |      |      |                |    |     |   |  |
| RPM          | 1770 1/MIN                  |  |      |      |                |    |     |   |  |
| FRAME        | 56                          |  | HZ   | 60   |                | PH | 3   |   |  |
| SER.F.       | 1.15                        |  | CODE | M    | DES            | B  | CL  | F |  |
| NEMA-NOM-EFF | 85.5                        |  | PF   | 66   |                |    |     |   |  |
| RATING       | 40C AMB-S1 CONT             |  |      |      |                |    |     |   |  |
| CC           | 010A                        |  |      |      | USABLE AT 208V |    | 3.3 |   |  |
| DE           | 6205                        |  | ODE  | 6203 |                |    |     |   |  |
| ENCL         | TENV                        |  | SN   |      |                |    |     |   |  |
|              | IE3-60HZ-84.6(75%)82.1(50%) |  |      |      |                |    |     |   |  |

## AC Induction Motor Performance Data

Record # 89784

Typical performance - not guaranteed values

| Winding: 35WGZ818-R002 |    |           | Type: 3522M                              |                     | Enclosure: TENV         |             |        |
|------------------------|----|-----------|------------------------------------------|---------------------|-------------------------|-------------|--------|
| Nameplate Data         |    |           | 460 V, 60 Hz:<br>High Voltage Connection |                     |                         |             |        |
| Rated Output (HP)      |    | 1         | Full Load Torque                         |                     | 2.99 LB-FT              |             |        |
| Volts                  |    | 230/460   | Start Configuration                      |                     | direct on line          |             |        |
| Full Load Amps         |    | 3.34/1.67 | Breakdown Torque                         |                     | 16.6 LB-FT              |             |        |
| R.P.M.                 |    | 1770      | Pull-up Torque                           |                     | 7.42 LB-FT              |             |        |
| Hz                     | 60 | Phase     | 3                                        | Locked-rotor Torque |                         | 10.32 LB-FT |        |
| NEMA Design Code       |    | B         | KVA Code                                 | M                   | Starting Current        |             | 16.1 A |
| Service Factor (S.F.)  |    | 1.15      | No-load Current                          |                     | 1.23 A                  |             |        |
| NEMA Nom. Eff.         |    | 85.5      | Power Factor                             | 66                  | Line-line Res. @ 25°C   |             | 14.4 Ω |
| Rating - Duty          |    | 40C       | AMB-CONT                                 |                     | Temp. Rise @ Rated Load |             | 63°C   |
| S.F. Amps              |    | 3.5/1.75  | Temp. Rise @ S.F. Load                   |                     | 71°C                    |             |        |
|                        |    |           | Locked-rotor Power Factor                |                     | 60.4724                 |             |        |
|                        |    |           | Rotor inertia                            |                     | 0.159 lb-ft²            |             |        |

## Load Characteristics 460 V, 60 Hz, 1 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 27   | 43   | 56   | 66   | 73   | 78   | 72   |
| Efficiency      | 70.8 | 81.2 | 84.5 | 85.9 | 85.8 | 85.2 | 85.5 |
| Speed           | 1793 | 1786 | 1781 | 1773 | 1766 | 1758 | 1768 |
| Line amperes    | 1.25 | 1.34 | 1.49 | 1.67 | 1.87 | 2.12 | 1.75 |

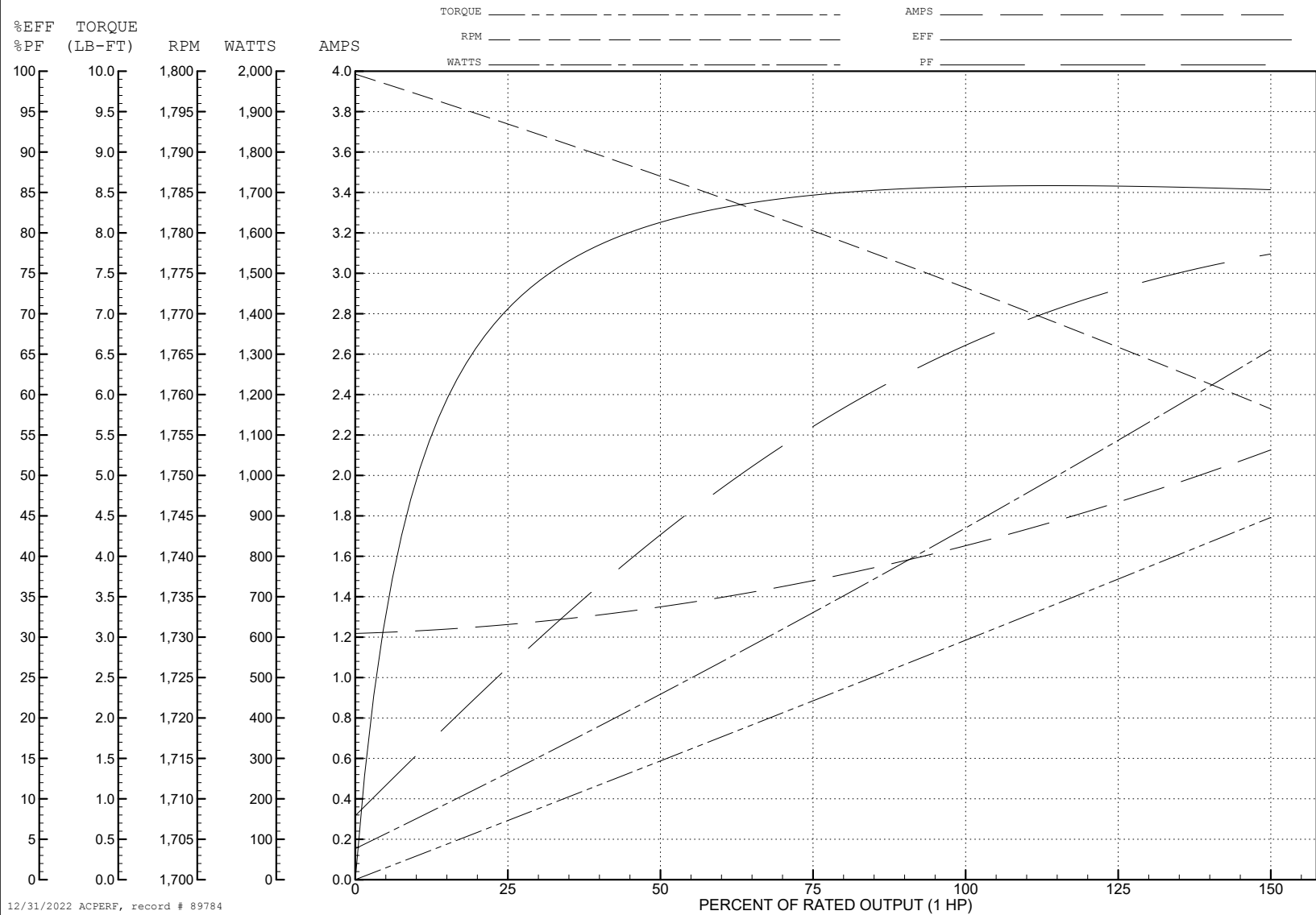
ABB Motors and Mechanical Inc.

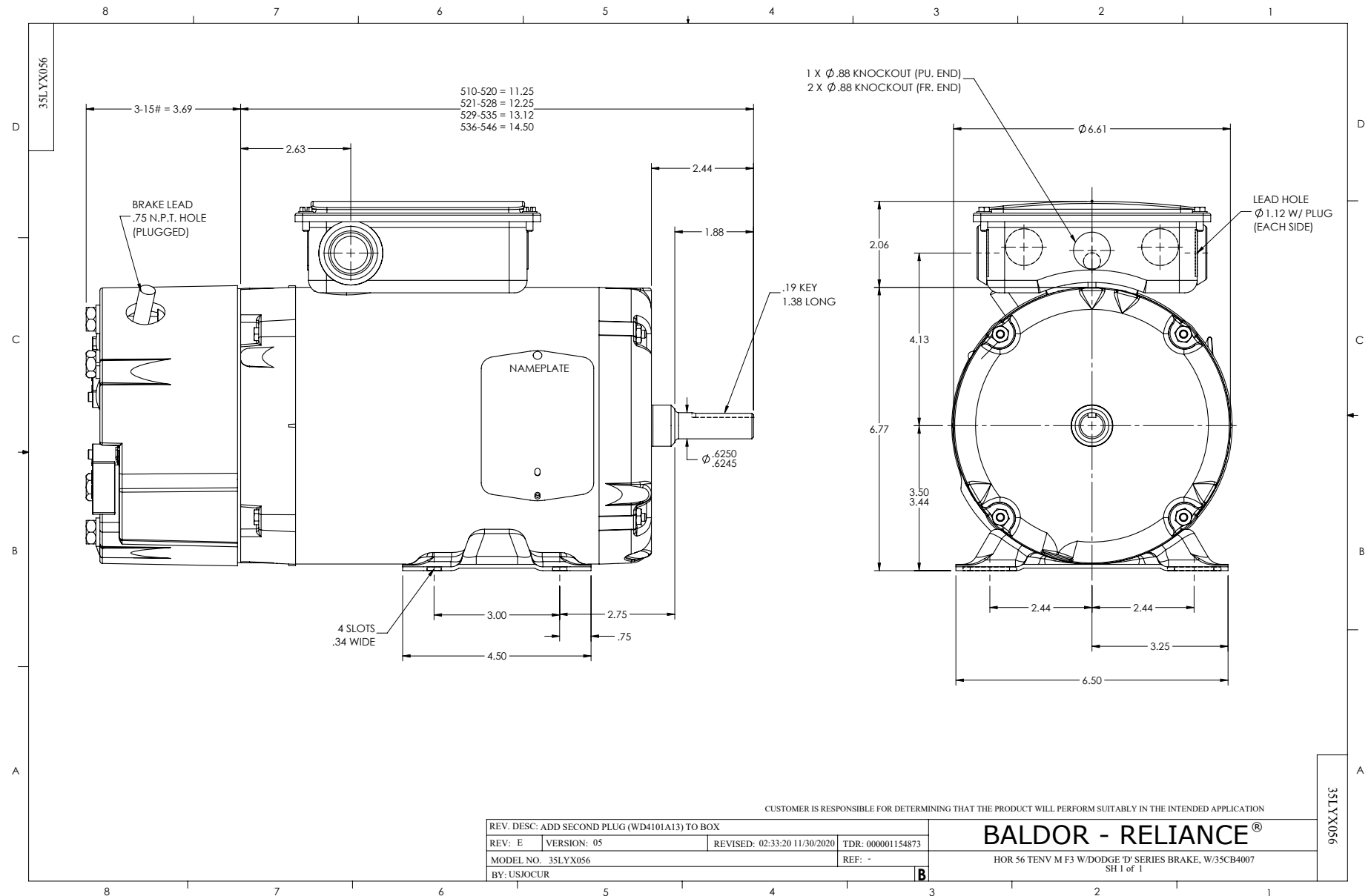
WINDING # 35WGZ818

Typical performance - not guaranteed values.

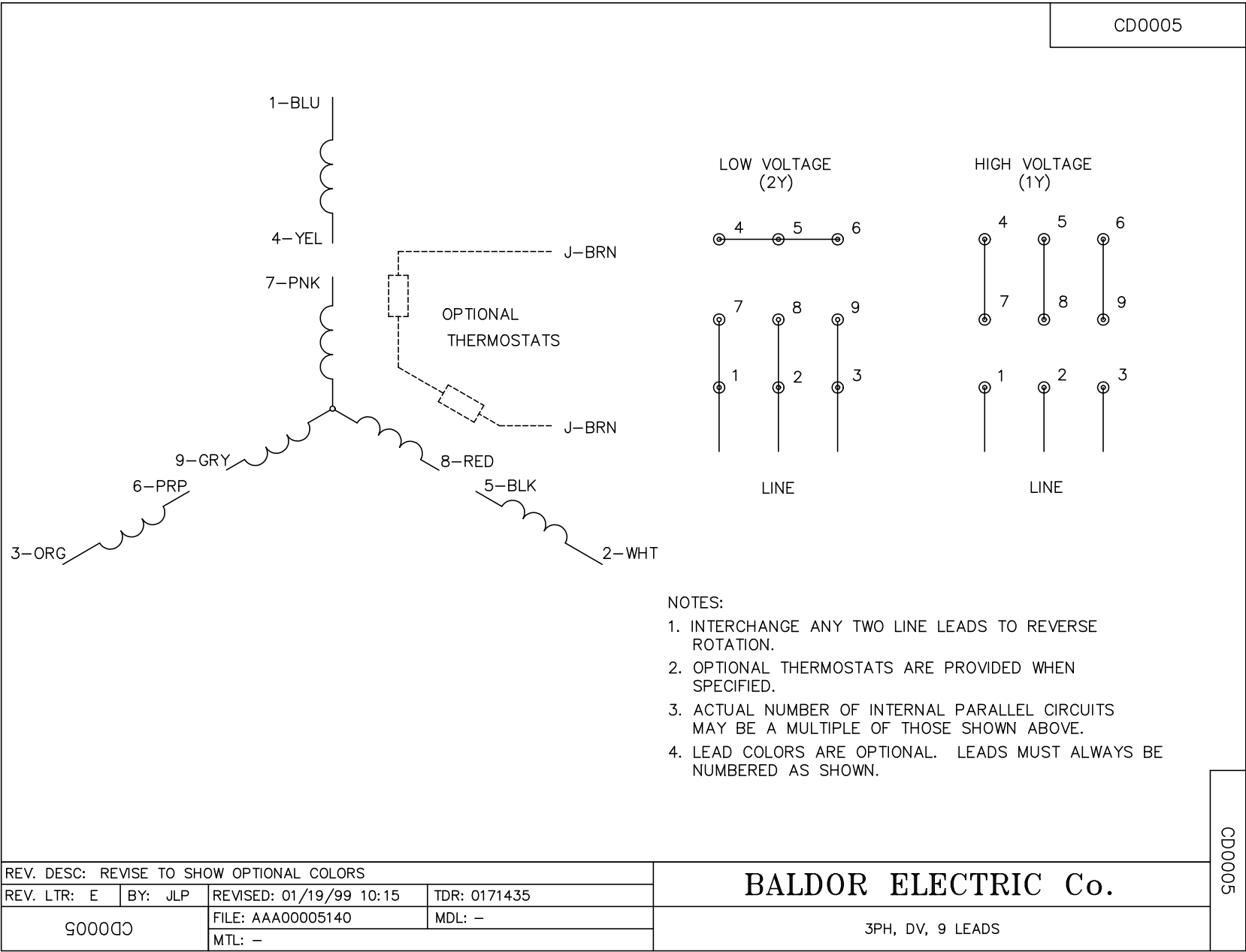
1 HP 3 PH 60 HZ 1770 RPM 460 V 3522M

TORQUES (LB-FT): PO=16.6 PU=7.42 LR=10.32 LRA=16.1









CD2120

## WIRING CONNECTIONS (1 PHASE VAC)

|               | POWER LINE A | POWER LINE B | CAP TOGETHER | CAP ALONE                                            |
|---------------|--------------|--------------|--------------|------------------------------------------------------|
| AC LOW VOLT.  | B1           | B2           | B3 & B5      | B4                                                   |
| AC HIGH VOLT. | B1 & B5      | B2           | ---          | B3 CAP ALONE<br>B4 CAP ALONE                         |
| DC VOLT.      | B1           | B2           | B3 & B5      | B4                                                   |
|               |              |              |              | B1 WHITE<br>B2 BLACK<br>B3 GRAY<br>B4 BLUE<br>B5 RED |

CD2120

REV. DESC: NEW

REV. LTR: -

VERSION: 00

TDR: 000000741785

FILE: \CKA\00037\282

REVISED: 12: 28: 11 04/12/2012

MTL: -

BY: CKRONSO

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