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# Customer information packet

## M1706T

2/1HP, 1725/850RPM, 3PH, 60HZ, 184T, 3628M

Class - None

Division - Not Applicable

## Specifications

|                                |                                      |
|--------------------------------|--------------------------------------|
| Enclosure                      | TEFC                                 |
| Frame                          | 184T                                 |
| 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             | 2.000 HP @ 60 HZ<br>1.000 HP @ 60 HZ |
| Phase                          | 3                                    |
| Synchronous Speed @ Frequency  | 1800 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              | 2.800 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 Face Code                | Standard                             |
| Front Shaft Indicator          | None                                 |
| Heater Indicator               | No Heater                            |
| High Voltage Full Load Amps    | 2.6 a                                |
| Insulation Class               | F                                    |
| Inverter Code                  | Not Inverter                         |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AD         |
| Type         | AC         |
| Mech. spec.  | 36A001     |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 36WG2848   |
| Layout       | 36LYA001   |
| Eff. date    | 05-20-2025 |
| CD Diagram   | CD0011     |
| Poles        | 04/08      |
| Leads        | 6#16       |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                               |                     |
|-------------------------------|---------------------|
| KVA Code                      | D                   |
| Lifting Lugs                  | No Lifting Lugs     |
| Locked Bearing Indicator      | No Locked Bearing   |
| Motor Lead Exit               | Ko Box              |
| Motor Lead Quantity/Wire Size | 6 @ 16 AWG          |
| Motor Lead Termination        | Flying Leads        |
| Motor Standards               | NEMA                |
| Motor Type                    | 3628M               |
| Mounting Arrangement          | F1                  |
| Number of Poles               | 4<br>8              |
| Overall Length                | 16.54 IN            |
| 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                | 1.125 IN            |
| Shaft Extension Location      | Pulley End          |
| Shaft Ground Indicator        | No Shaft Grounding  |
| Shaft Rotation                | Reversible          |
| Shaft Slinger Indicator       | No Slinger          |
| Speed                         | 1725 rpm<br>850 rpm |
| Speed Code                    | 2S-1W-CT            |
| 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

| NP1256L      |              |      |     |      |   |       |    |   |  |
|--------------|--------------|------|-----|------|---|-------|----|---|--|
| CAT.NO.      | M1706T       |      |     |      |   |       |    |   |  |
| SPEC.        | 36A01-2848   |      |     |      |   |       |    |   |  |
| HP           | 2/1          |      |     |      |   |       |    |   |  |
| VOLTS        | 460          |      |     |      |   |       |    |   |  |
| AMP          | 2.8/2.6      |      |     |      |   |       |    |   |  |
| RPM          | 1725/850     |      |     |      |   |       |    |   |  |
| FRAME        | 184T         |      | HZ  | 60   |   |       | PH | 3 |  |
| SER.F.       | 1.15         | CODE | D   | DES  | B | CLASS |    | F |  |
| NEMA-NOM-EFF |              | PF   |     |      |   |       |    |   |  |
| RATING       | 40C AMB-CONT |      |     |      |   |       |    |   |  |
| CC           |              |      |     |      |   |       |    |   |  |
| DE           | 6206         |      | ODE | 6205 |   |       |    |   |  |
| ENCL         | TEFC         | SN   |     |      |   |       |    |   |  |
|              |              |      |     |      |   |       |    |   |  |

**Accessories**

| Part number   | Description                             | Multiplier |
|---------------|-----------------------------------------|------------|
| 36-3301       | C FACE KIT                              | A8         |
| 36EP1304A62SP | FLANGE MTD ENDPLATE 182-4TD -ENCL (LESS | A8         |

**AC Induction Motor Performance Data**

Record # 10540

Typical performance - not guaranteed values

| Winding: 36WG2848-R005 |                | Type: 3628M                            | Enclosure: TEFC |
|------------------------|----------------|----------------------------------------|-----------------|
| Nameplate Data         |                | 460 V, 60 Hz:<br>High Speed Connection |                 |
| Rated Output (HP)      | 2/1            | Full Load Torque                       | 6.2 LB-FT       |
| Volts                  | 460            | Start Configuration                    | direct on line  |
| Full Load Amps         | 2.8/2.6        | Breakdown Torque                       | 18 LB-FT        |
| R.P.M.                 | 1725/850       | Pull-up Torque                         | 14 LB-FT        |
| Hz                     | 60 Phase       | Locked-rotor Torque                    | 14 LB-FT        |
| NEMA Design Code       | B KVA Code     | Starting Current                       | 12.5 A          |
| Service Factor (S.F.)  | 1.15           | No-load Current                        | 0.85 A          |
| NEMA Nom. Eff.         | 0 Power Factor | Line-line Res. @ 25°C                  | 13 Ω            |
| Rating - Duty          | 40C AMB-CONT   | Temp. Rise @ Rated Load                |                 |

**Load Characteristics 460 V, 60 Hz, 2 HP**

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor    | 59   | 76   | 82   | 84   | 85   | 90   | 85   |
| Efficiency      | 78   | 81   | 79   | 76   | 71   | 70.6 | 74   |
| Speed           | 1760 | 1722 | 1680 | 1628 | 1571 | 1560 | 1606 |
| Line amperes    | 1.15 | 1.6  | 2.15 | 2.8  | 3.5  | 4.44 | 3.27 |

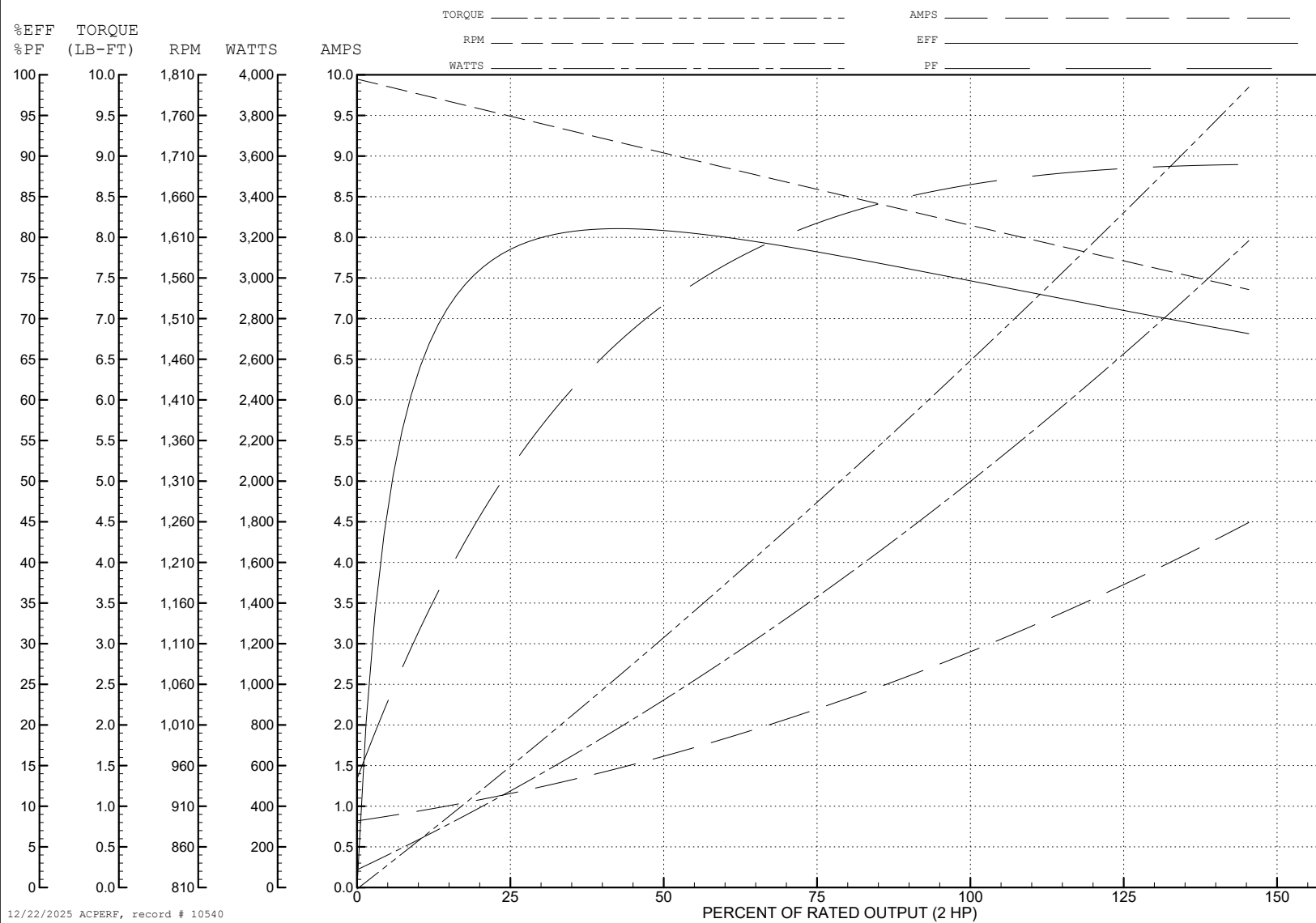
ABB Motors and Mechanical Inc.

WINDING # 36WG2848

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1628 RPM 460 V 3628M

TORQUES (LB-FT): PO=18 PU=14 LR=14 LRA=12.5



**AC Induction Motor Performance Data**

Record # 10541

Typical performance - not guaranteed values

| Winding: 36WG2848-R005 |    |              | Type: 3628M                           |                         | Enclosure: TEFC  |                       |        |        |
|------------------------|----|--------------|---------------------------------------|-------------------------|------------------|-----------------------|--------|--------|
| Nameplate Data         |    |              | 460 V, 60 Hz:<br>Low Speed Connection |                         |                  |                       |        |        |
| Rated Output (HP)      |    | 2/1          | Full Load Torque                      |                         | 6.1 LB-FT        |                       |        |        |
| Volts                  |    | 460          | Start Configuration                   |                         | direct on line   |                       |        |        |
| Full Load Amps         |    | 2.8/2.6      | Breakdown Torque                      |                         | 21 LB-FT         |                       |        |        |
| R.P.M.                 |    | 1725/850     | Pull-up Torque                        |                         | 17 LB-FT         |                       |        |        |
| Hz                     | 60 | Phase        | 3                                     | Locked-rotor Torque     |                  | 18 LB-FT              |        |        |
| NEMA Design Code       |    | B            | KVA Code                              | D                       | Starting Current |                       | 10.5 A |        |
| Service Factor (S.F.)  |    | 1.15         |                                       | No-load Current         |                  | 2.35 A                |        |        |
| NEMA Nom. Eff.         |    | 0            | Power Factor                          |                         | 0                | Line-line Res. @ 25°C |        | 17.2 Ω |
| Rating - Duty          |    | 40C AMB-CONT |                                       | Temp. Rise @ Rated Load |                  |                       |        |        |

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

| % of Rated Load | 25  | 50   | 75   | 100 | 125  | 150 | S.F. |
|-----------------|-----|------|------|-----|------|-----|------|
| Power Factor    | 24  | 33   | 43   | 50  | 57   | 62  | 54   |
| Efficiency      | 44  | 59   | 65   | 67  | 68   | 67  | 67.4 |
| Speed           | 886 | 874  | 860  | 845 | 830  | 814 | 838  |
| Line amperes    | 2.4 | 2.45 | 2.55 | 2.7 | 2.95 | 3.2 | 2.83 |

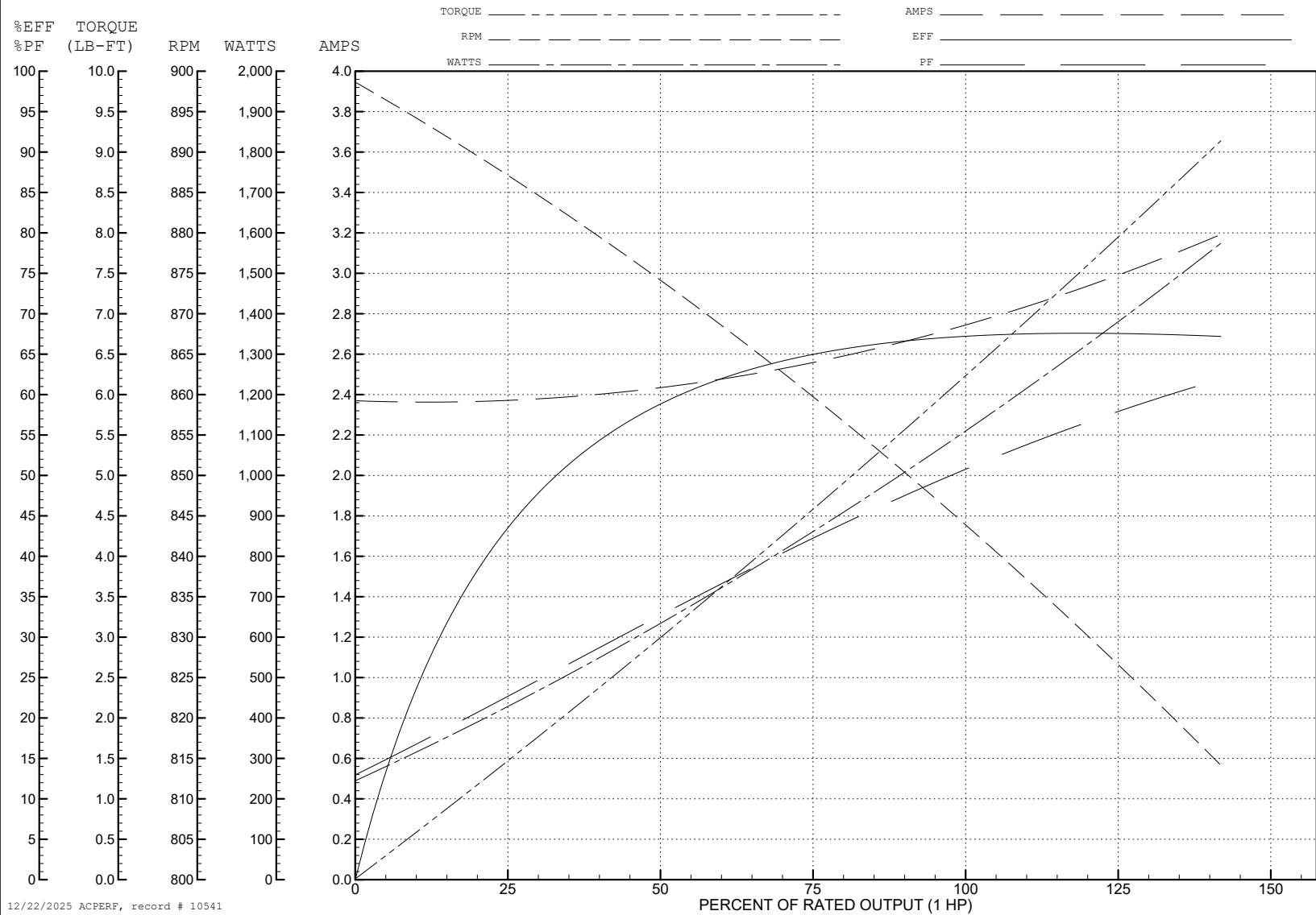
ABB Motors and Mechanical Inc.

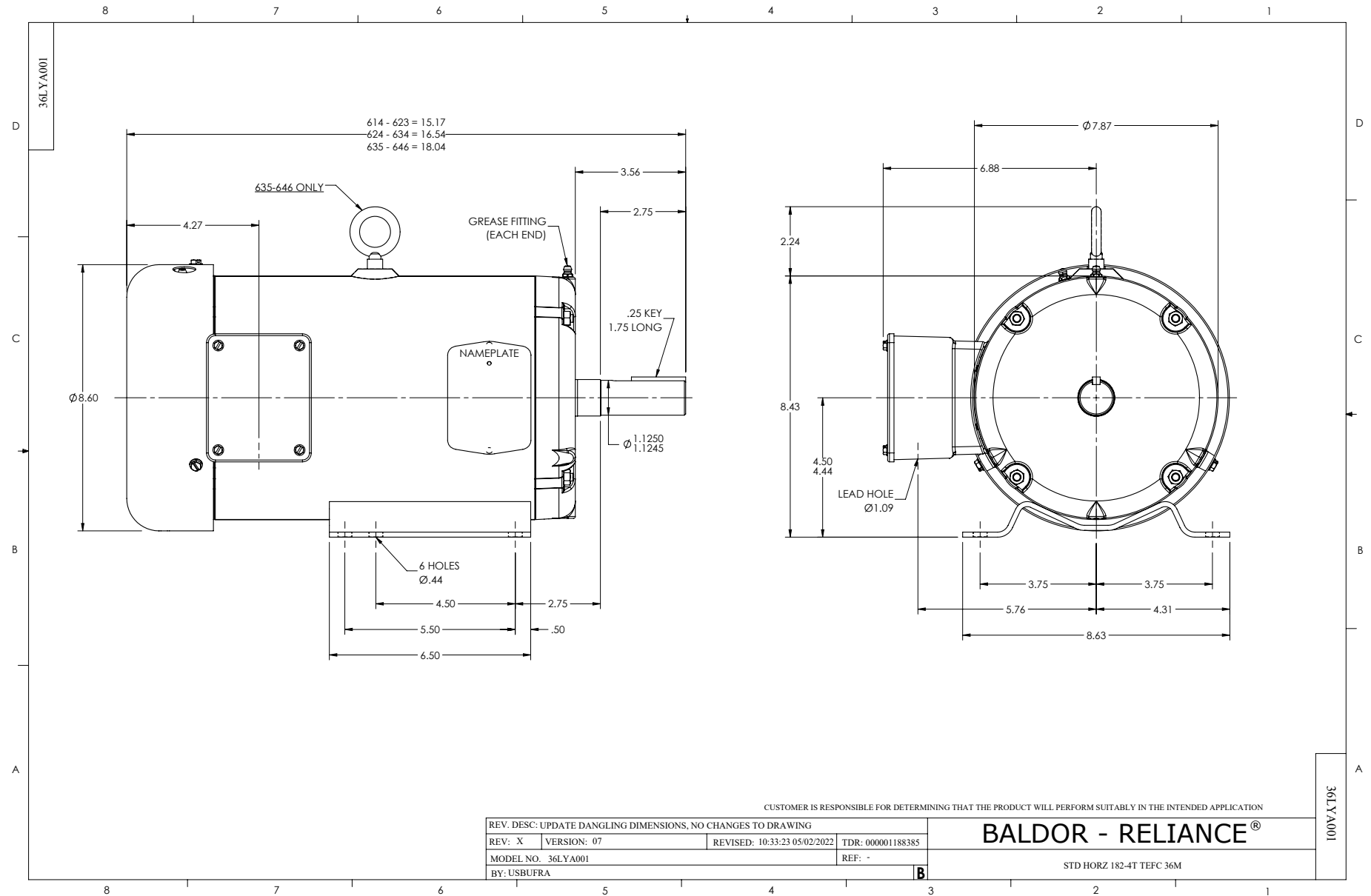
WINDING # 36WG2848

Typical performance - not guaranteed values.

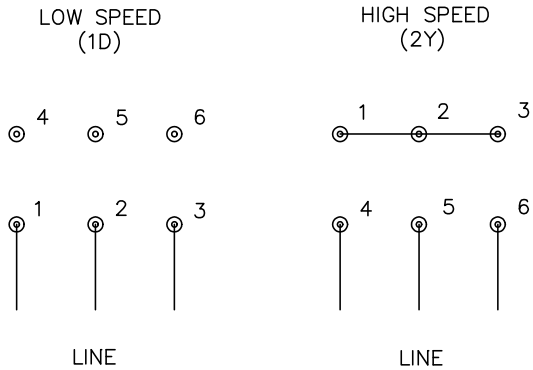
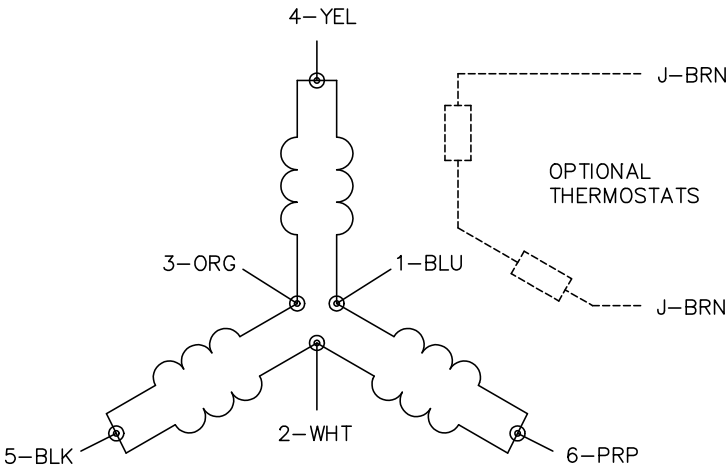
1 HP 3 PH 60 HZ 845 RPM 460 V 3628M

TORQUES (LB-FT): PO=21 PU=17 LR=18 LRA=10.5





CD0011



- 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: F                               | BY: JLP | REVISED: 01/21/99 5:04 | TDR: 0171435 |
| CD0011                                    |         | FILE: DWG\142.wg       | MDL: -       |
|                                           |         | MTL: -                 |              |

BALDOR ELECTRIC Co.

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

CD0011