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# Customer information packet

## DRX18344T

3HP, 1755//1465RPM, 3PH, 60HZ, 182T, XPFC, F1

Class - CLI GP C,D

Division - Division I

## Specifications

|                                |                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------|
| Enclosure                      | XPFC                                                                             |
| Frame                          | 182T                                                                             |
| Frame Material                 | Iron                                                                             |
| Frequency                      | 50.00 Hz<br>60.00 Hz                                                             |
| Haz Area Class and Group       | CLI GP C,D                                                                       |
| Haz Area Division              | Division I                                                                       |
| Motor Letter Type              | Three Phase                                                                      |
| Output @ Frequency             | 3.000 HP @ 60 HZ<br>2.000 HP @ 50 HZ                                             |
| Phase                          | 3                                                                                |
| Synchronous Speed @ Frequency  | 1800 RPM @ 60 HZ                                                                 |
| Voltage @ Frequency            | 460.0 V @ 60 HZ<br>190.0 V @ 50 HZ<br>230.0 V @ 60 HZ<br>380.0 V @ 50 HZ         |
| Agency Approvals               | UL<br>CSA EEV                                                                    |
| 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                                                                             |
| Constant Torque Speed Range    | 6                                                                                |
| Current @ Voltage              | 3.500 A @ 380.0 V<br>4.100 A @ 460.0 V<br>7.000 A @ 190.0 V<br>8.200 A @ 230.0 V |
| Design Code                    | B                                                                                |
| Drip Cover                     | No Drip Cover                                                                    |
| Duty Rating                    | CONT                                                                             |

## Part detail

|              |              |
|--------------|--------------|
| Revision     | D            |
| Type         | AC           |
| Mech. spec.  |              |
| Base         |              |
| Status       | PRD/A        |
| Elec. spec.  | 06WGX181     |
| Layout       | 06LY-000-044 |
| Eff. date    | 02-28-2024   |
| CD Diagram   | CD0005       |
| Poles        | 04           |
| Leads        | 9#16         |
| Proprietary  | False        |
| Created date | 04-01-2019   |

|                               |                            |
|-------------------------------|----------------------------|
| Efficiency @ 100% Load        | 89.5 %                     |
| Electrically Isolated Bearing | Not Electrically Isolated  |
| Feedback Device               | NO FEEDBACK                |
| Haz Area Temp Code            | T3C                        |
| Heater Indicator              | No Heater                  |
| High Voltage Full Load Amps   | 3.5 a                      |
| Insulation Class              | F                          |
| Inverter Code                 | Inverter Duty              |
| IP Rating                     | NONE                       |
| KVA Code                      | J                          |
| Lifting Lugs                  | Standard Lifting Lugs      |
| Locked Bearing Indicator      | Locked Bearing             |
| Max Speed                     | 2700 rpm                   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Motor Type                    | 0632M                      |
| Mounting Arrangement          | F1                         |
| Number of Poles               | 4                          |
| Overall Length                | 17.56 IN                   |
| Power Factor                  | 77                         |
| Product Family                | General Purpose            |
| Pulley Face Code              | Standard                   |
| Rodent Screen                 | None                       |
| RoHS Status                   | ROHS NON-COMPLIANT         |
| Service Factor                | 1.00                       |
| Shaft Diameter                | 1.125 IN                   |
| Shaft Ground Indicator        | No Shaft Grounding         |
| Shaft Rotation                | Reversible                 |
| Speed                         | 1755 rpm                   |
| Speed Code                    | Single Speed               |
| Starting Method               | Direct on line             |
| Thermal Device - Bearing      | None                       |
| Thermal Device - Winding      | Normally Closed Thermostat |
| Vibration Sensor Indicator    | No Vibration Sensor        |

|                   |      |
|-------------------|------|
| Winding Thermal 1 | None |
| Winding Thermal 2 | None |

## Nameplate

| NP1401XPSLEV |                  |        |   |              |                     |            |      |         |          |  |    |  |
|--------------|------------------|--------|---|--------------|---------------------|------------|------|---------|----------|--|----|--|
| NO.          |                  |        |   |              |                     | CC         | 010A |         |          |  |    |  |
| S/N          |                  |        |   |              |                     | TEMP CODE  |      | T3C     |          |  |    |  |
| SPEC.        | 06-0000-0053     |        |   |              |                     | INV.TYPE   |      | PWM     |          |  |    |  |
| CAT.NO.      | DRX18344T        |        |   |              |                     | C HP FR    | 60   | C HP TO | 90       |  |    |  |
| HP           | 3//2             |        |   |              |                     | CT HZ FROM |      | 6       | CT HZ TO |  | 60 |  |
| VOLTS        | 230/460//190/380 |        |   |              |                     | VT HZ FROM |      | 6       | VT HZ TO |  | 60 |  |
| AMPS         | 8.2/4.1//7/3.5   |        |   |              | MAG CUR             | 4.2/2.1    |      |         |          |  |    |  |
| RPM          | 1755//1465       |        |   |              | MX RPM              | 2700       |      |         |          |  |    |  |
| HZ           | 60//50           | PH     | 3 | CL           | F                   | NOM.EFF.   |      | 89.5    |          |  |    |  |
| SER.F.       | 1.00             | DES    | B | SL HZ        | 1.5                 | WK2        | 0.3  |         |          |  |    |  |
| FRAME        | 182T             | RATING |   | 40C AMB-CONT |                     |            |      |         |          |  |    |  |
|              | 55C AMB @ 1.0 SF |        |   |              |                     |            |      |         |          |  |    |  |
|              | 1.15 SF SINEWAVE |        |   |              | NEMA MG-1 PT 5,IP55 |            |      |         |          |  |    |  |
|              |                  |        |   |              |                     |            |      |         |          |  |    |  |

## AC Induction Motor Performance Data

Record # 72220

Typical performance - not guaranteed values

| Winding: 06WGX181-R087 |                  | Type: 0632M  | Enclosure: XPFC                          |                     |                           |              |
|------------------------|------------------|--------------|------------------------------------------|---------------------|---------------------------|--------------|
| Nameplate Data         |                  |              | 460 V, 60 Hz:<br>High Voltage Connection |                     |                           |              |
| Rated Output (HP)      | 3//2             |              | Full Load Torque                         | 9.08 LB-FT          |                           |              |
| Volts                  | 230/460//190/380 |              | Start Configuration                      | direct on line      |                           |              |
| Full Load Amps         | 8.2/4.1//7/3.5   |              | Breakdown Torque                         | 33.1 LB-FT          |                           |              |
| R.P.M.                 | 1755//1465       |              | Pull-up Torque                           | 18.2 LB-FT          |                           |              |
| Hz                     | 60//50           | 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                   | No-load Current           | 2.14 A       |
| NEMA Nom. Eff.         | 89.5             | Power Factor | 7                                        | 7                   | Line-line Res. @ 25°C     | 3.93 Ω       |
| Rating - Duty          | 40C              |              | AMB-CONT                                 |                     | Temp. Rise @ Rated Load   | 35°C         |
| S.F. Amps              |                  |              |                                          |                     | Temp. Rise @ S.F. Load    | 42°C         |
|                        |                  |              |                                          |                     | Locked-rotor Power Factor | 41.4         |
|                        |                  |              |                                          |                     | Rotor inertia             | 0.298 LB-FT2 |

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

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 38   | 58   | 70   | 77   | 81   | 83   |
| Efficiency      | 83.5 | 88.9 | 90   | 89.8 | 89.1 | 87.7 |
| Speed           | 1790 | 1779 | 1769 | 1757 | 1744 | 1730 |
| Line amperes    | 2.34 | 2.79 | 3.39 | 4.1  | 4.91 | 5.86 |

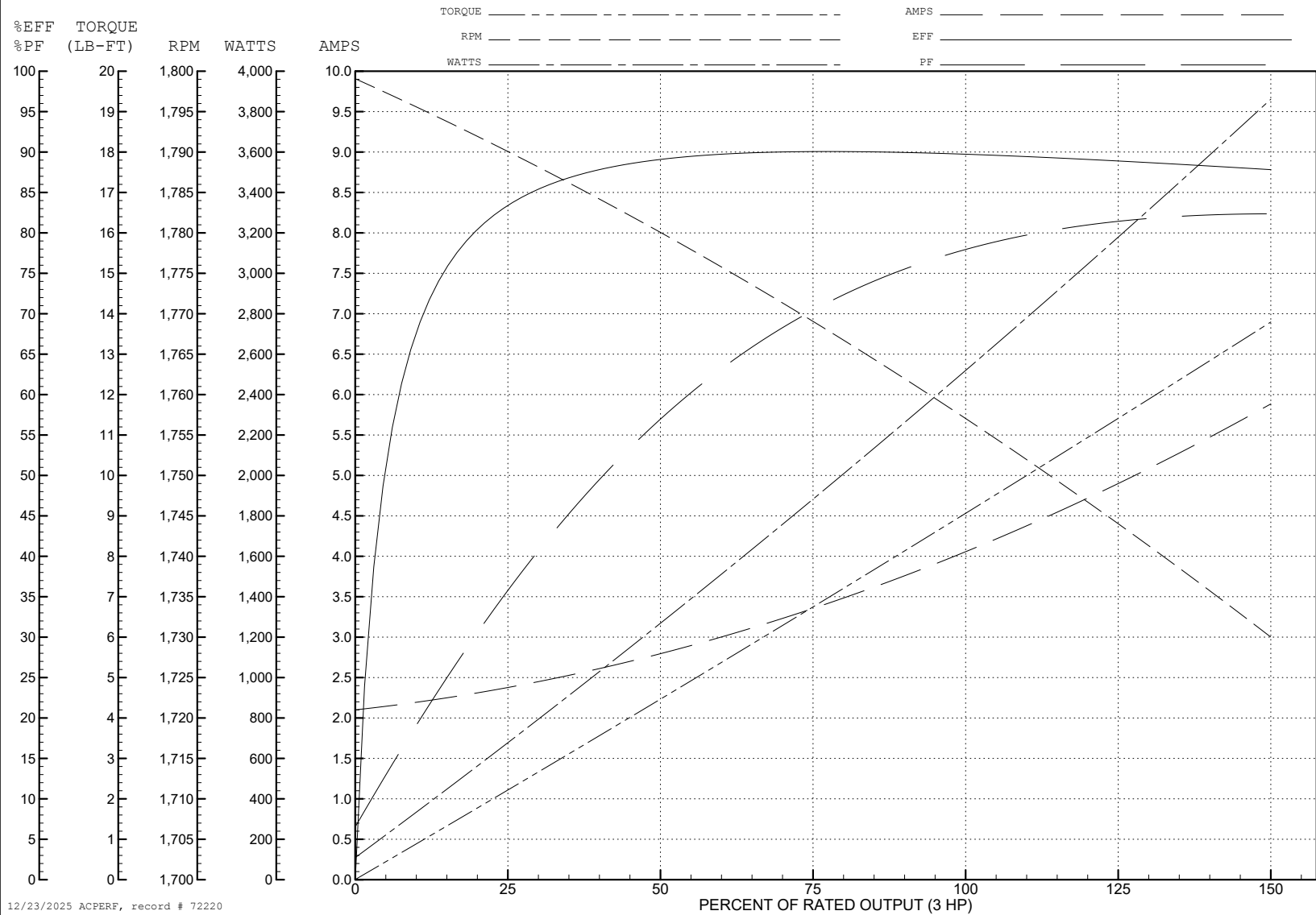
ABB Motors and Mechanical Inc.

WINDING # 06WGX181

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1757 RPM 460 V 0632M

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



## AC Induction Motor Performance Data

Record # 72221

Typical performance - not guaranteed values

| Winding: 06WGX181-R087 |  |                  | Type: 0632M                              |  | Enclosure: XPFC |  |
|------------------------|--|------------------|------------------------------------------|--|-----------------|--|
| Nameplate Data         |  |                  | 380 V, 50 Hz:<br>High Voltage Connection |  |                 |  |
| Rated Output (HP)      |  | 3//2             | Full Load Torque                         |  | 7.25 LB-FT      |  |
| Volts                  |  | 230/460//190/380 | Start Configuration                      |  | direct on line  |  |
| Full Load Amps         |  | 8.2/4.1//7/3.5   | Breakdown Torque                         |  | 31.25 LB-FT     |  |
| R.P.M.                 |  | 1755//1465       | Pull-up Torque                           |  | 18.55 LB-FT     |  |
| Hz                     |  | 60//50           | Phase                                    |  | 3               |  |
| NEMA Design Code       |  | B                | KVA Code                                 |  | J               |  |
| Service Factor (S.F.)  |  | 1                | Starting Current                         |  | 28.72 A         |  |
| NEMA Nom. Eff.         |  | 89.5             | Power Factor                             |  | 77              |  |
| Rating - Duty          |  | 40C AMB-CONT     | Temp. Rise @ Rated Load                  |  | 28°C            |  |
| S.F. Amps              |  |                  | Temp. Rise @ S.F. Load                   |  | 32°C            |  |
|                        |  |                  | Locked-rotor Power Factor                |  | 46.1            |  |
|                        |  |                  | Rotor inertia                            |  | 0.298 LB-FT2    |  |

## Load Characteristics 380 V, 50 Hz, 2 HP

| % of Rated Load | 25   | 50   | 75   | 100  | 125  | 150  |
|-----------------|------|------|------|------|------|------|
| Power Factor    | 33   | 52   | 65   | 73   | 78   | 81   |
| Efficiency      | 79.7 | 86.5 | 88.4 | 88.7 | 88.4 | 87.1 |
| Speed           | 1491 | 1483 | 1474 | 1465 | 1455 | 1443 |
| Line amperes    | 2.25 | 2.57 | 3.01 | 3.53 | 4.14 | 4.87 |

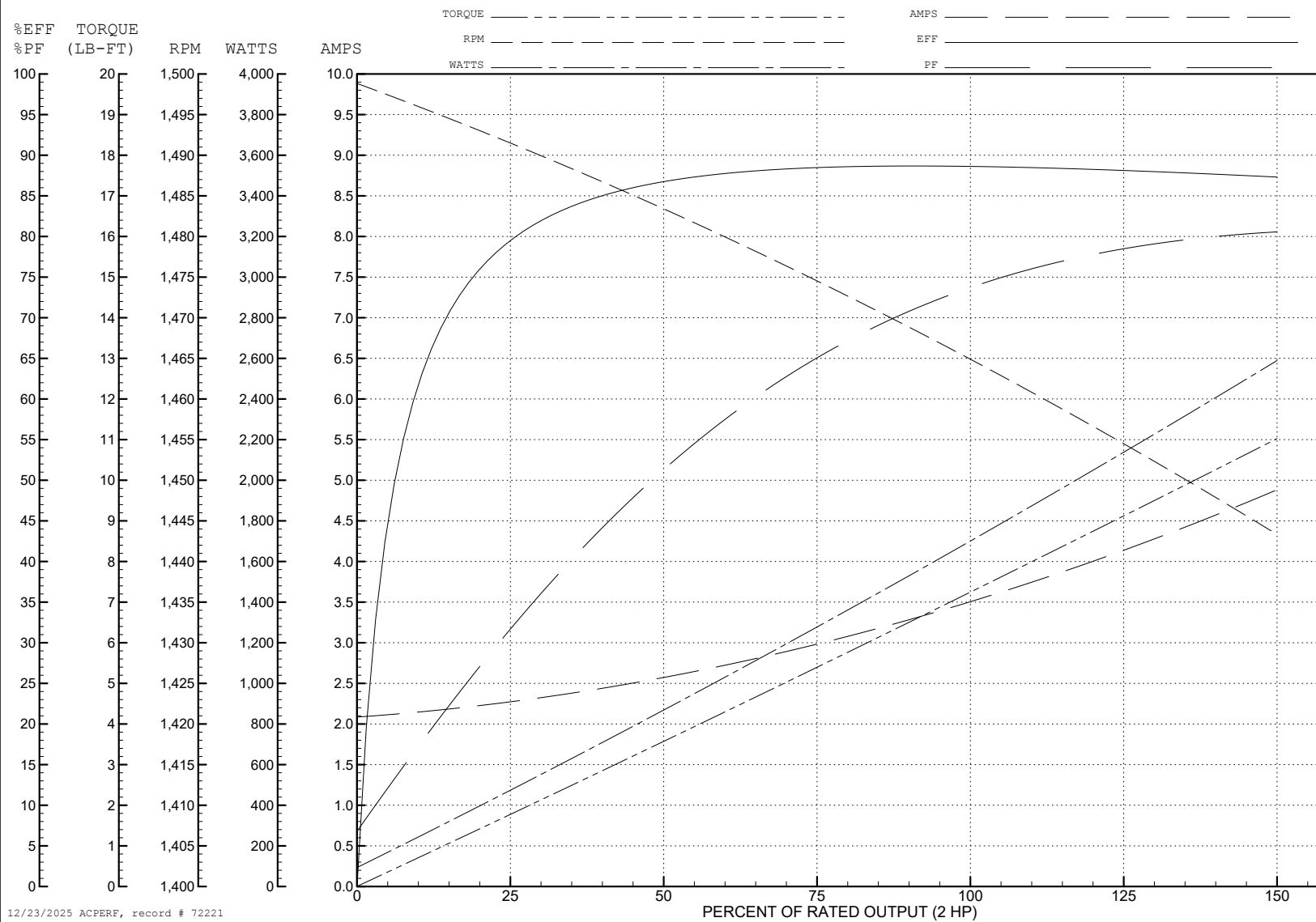
ABB Motors and Mechanical Inc.

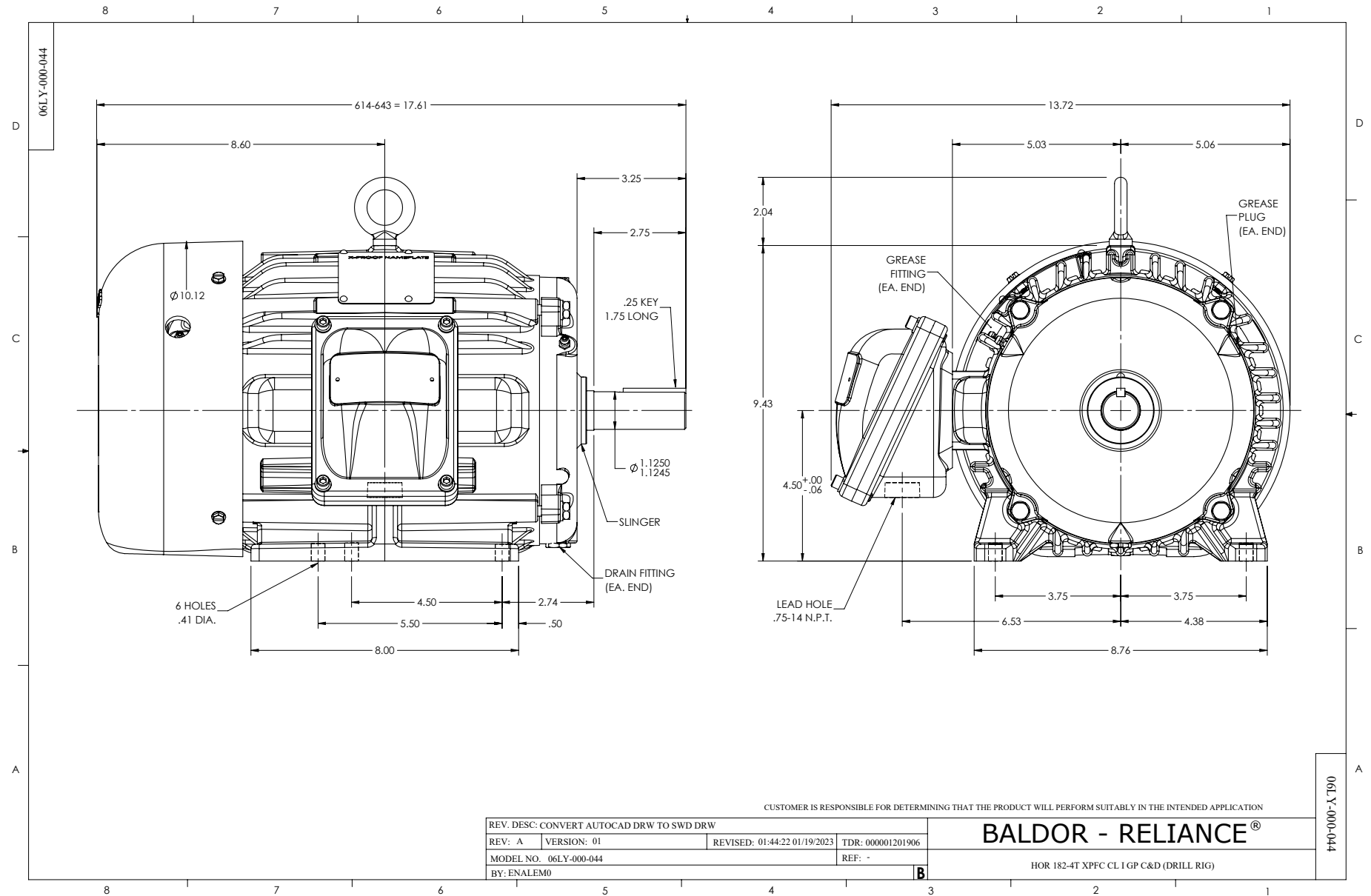
WINDING # 06WGX181

Typical performance - not guaranteed values.

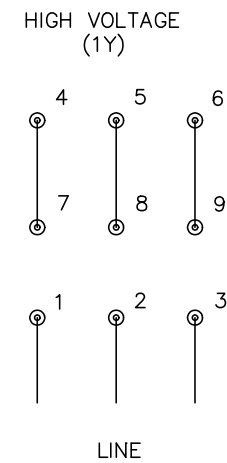
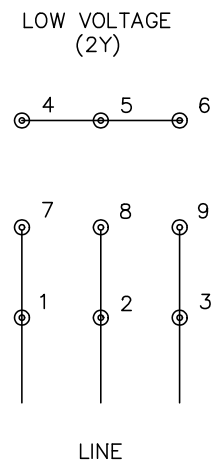
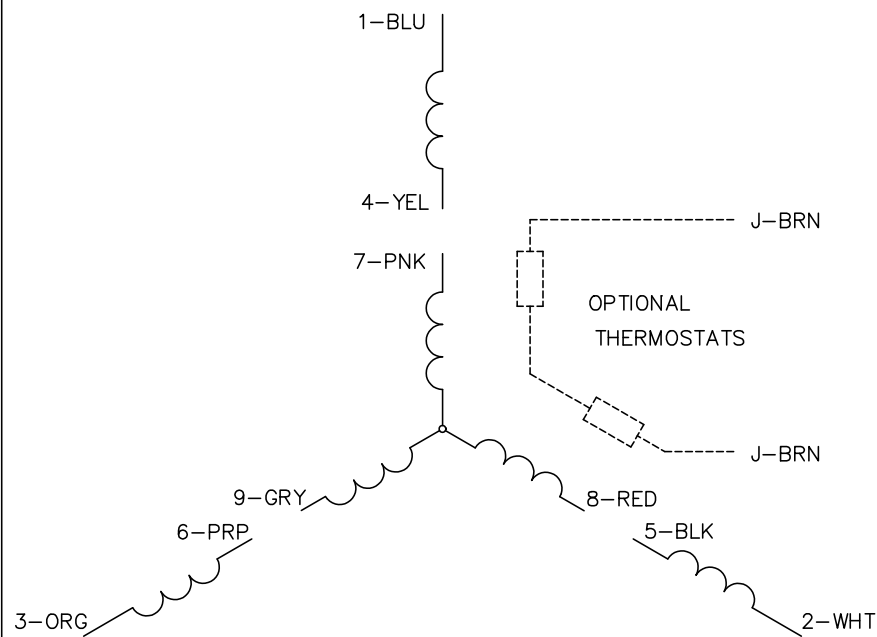
2 HP 3 PH 50 HZ 1465 RPM 380 V 0632M

TORQUES (LB-FT): PO=31.25 PU=18.55 LR=20.79 LRA=28.72





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.

CD0005

|                                           |         |                         |              |
|-------------------------------------------|---------|-------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS |         |                         |              |
| REV. LTR: E                               | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| 900000                                    |         | FILE: AAA00005140       | MDL: -       |
|                                           |         | MTL: -                  |              |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS