

**BALDOR® • RELIANCE™**

---

# Customer information packet

## CDPT3436

.75HP, 1750RPM, DC, 56C, 3428P, TEFC, F1, N

Class - None

Division - Not Applicable

## Specifications

|                               |                           |
|-------------------------------|---------------------------|
| Armature Voltage              | 180 V                     |
| Base Speed                    | 1750 rpm                  |
| Enclosure                     | TEFC                      |
| Frame                         | 56C                       |
| Frame Material                | Steel                     |
| Haz Area Class and Group      | None                      |
| Output Power                  | 0.750 HP                  |
| Agency Approvals              | CE<br>CSA<br>UR<br>WEEE   |
| Ambient Temperature           | 40 °C                     |
| Armature Current              | 3.7 a                     |
| Armature Inertia              | 10.926 lb-ft <sup>2</sup> |
| Base Indicator                | Rigid                     |
| Bearing Grease Type           | Polyrex EM (-20F +300F)   |
| Drip Cover                    | No Drip Cover             |
| Duty Rating                   | CONT                      |
| Feedback Device               | TACHOMETER                |
| Haz Area Division             | Not Applicable            |
| Heater Indicator              | No Heater                 |
| Insulation Class              | F                         |
| Lifting Lugs                  | No Lifting Lugs           |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG                |
| Motor Lead Termination        | Flying Leads              |
| Motor Standards               | NEMA                      |
| Mounting Arrangement          | F1                        |
| Overall Length                | 16.64 IN                  |
| Product Family                | General Purpose           |
| Pulley End Bearing Type       | Sealed Bearing            |
| RoHS Status                   | ROHS COMPLIANT            |
| Service Factor                | 1.00                      |

## Part detail

|              |            |
|--------------|------------|
| Revision     | D          |
| Type         | DC         |
| Mech. spec.  | 34-7842    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG3946   |
| Layout       | 34LY7842   |
| Eff. date    | 10-25-2024 |
| CD Diagram   | CD0194     |
| Poles        | 00         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 06-19-2019 |

|                                |                    |
|--------------------------------|--------------------|
| <b>Shaft Diameter</b>          | 0.625 IN           |
| <b>Shaft Ground Indicator</b>  | No Shaft Grounding |
| <b>Shaft Rotation</b>          | Reversible         |
| <b>Shaft Slinger Indicator</b> | No Slinger         |

**Nameplate**

| <b>NP0891L</b> |                 |                 |       |                |   |
|----------------|-----------------|-----------------|-------|----------------|---|
| <b>CAT.NO.</b> | CDPT3436        |                 |       |                |   |
| <b>SPEC.</b>   | 34-7842-3946    |                 |       |                |   |
| <b>HP</b>      | .75/KW.55       | <b>ENCL</b>     | TEFC  |                |   |
| <b>RPM</b>     | 1750 1/MIN      |                 |       |                |   |
| <b>FRAME</b>   | 56C             | <b>TYPE</b>     | 3428P |                |   |
| <b>ARM V</b>   | 180             | <b>ARM A</b>    | 3.7   |                |   |
| <b>FLD V</b>   |                 | <b>FLD A</b>    |       |                |   |
| <b>INSUL</b>   | F               | <b>AMB.</b>     | 40    |                |   |
| <b>DUTY</b>    | CONT            | <b>SUPPLY</b>   | 1.5   |                |   |
| <b>BRG/DE</b>  | 6203            | <b>BRG/ODE</b>  | 6203  |                |   |
| <b>BRUSHES</b> | 2/BP5000AW14    |                 |       |                |   |
|                |                 | <b>BLANK</b>    |       |                |   |
| <b>SER.</b>    |                 |                 |       |                |   |
| <b>BLANK</b>   | IP44 KG20 IC411 |                 |       |                |   |
| <b>APRV-CE</b> | Y               | <b>APRV-CSA</b> | Y     | <b>APRV-UL</b> | Y |

**DC Motor Performance Data**

Record # 1048

Typical performance - not guaranteed values

| <b>Winding: 34WG3946-R001</b> |              | <b>Type: 3428P</b>                | <b>Enclosure: TEFC</b> |
|-------------------------------|--------------|-----------------------------------|------------------------|
| <b>Nameplate Data</b>         |              | <b>General Characteristics</b>    |                        |
| <b>Rated Output (HP)</b>      | 0.75         | <b>Armature Resistance @ 25°C</b> | 2.728 Ω                |
| <b>R.P.M.</b>                 | 1750         |                                   |                        |
| <b>Armature Volts</b>         | 180          |                                   |                        |
| <b>Armature Amps</b>          | 3.7          |                                   |                        |
| <b>Field Volts</b>            |              | <b>Armature Inductance</b>        | 27.3166 mH             |
| <b>Field Amps</b>             |              |                                   |                        |
| <b>Rating - Duty</b>          | 40C AMB-CONT |                                   |                        |
| <b>Form Factor</b>            | 1.5          |                                   |                        |

**Load Characteristics at 180 Armature Volts**

| <b>Load Point</b>       | <b>1</b> | <b>2</b> | <b>3</b> | <b>4</b> | <b>5</b> | <b>6</b> | <b>7</b> |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|
| <b>Armature Amps</b>    | 0.16     | 1.36     | 2.56     | 3.76     | 5.66     | 6.72     | 8.16     |
| <b>R.P.M.</b>           | 1985     | 1934     | 1883     | 1832     | 1750     | 1705     | 1644     |
| <b>Torque ( LB-FT )</b> | 0        | 0.75     | 1.5      | 2.25     | 3.44     | 4.1      | 5        |

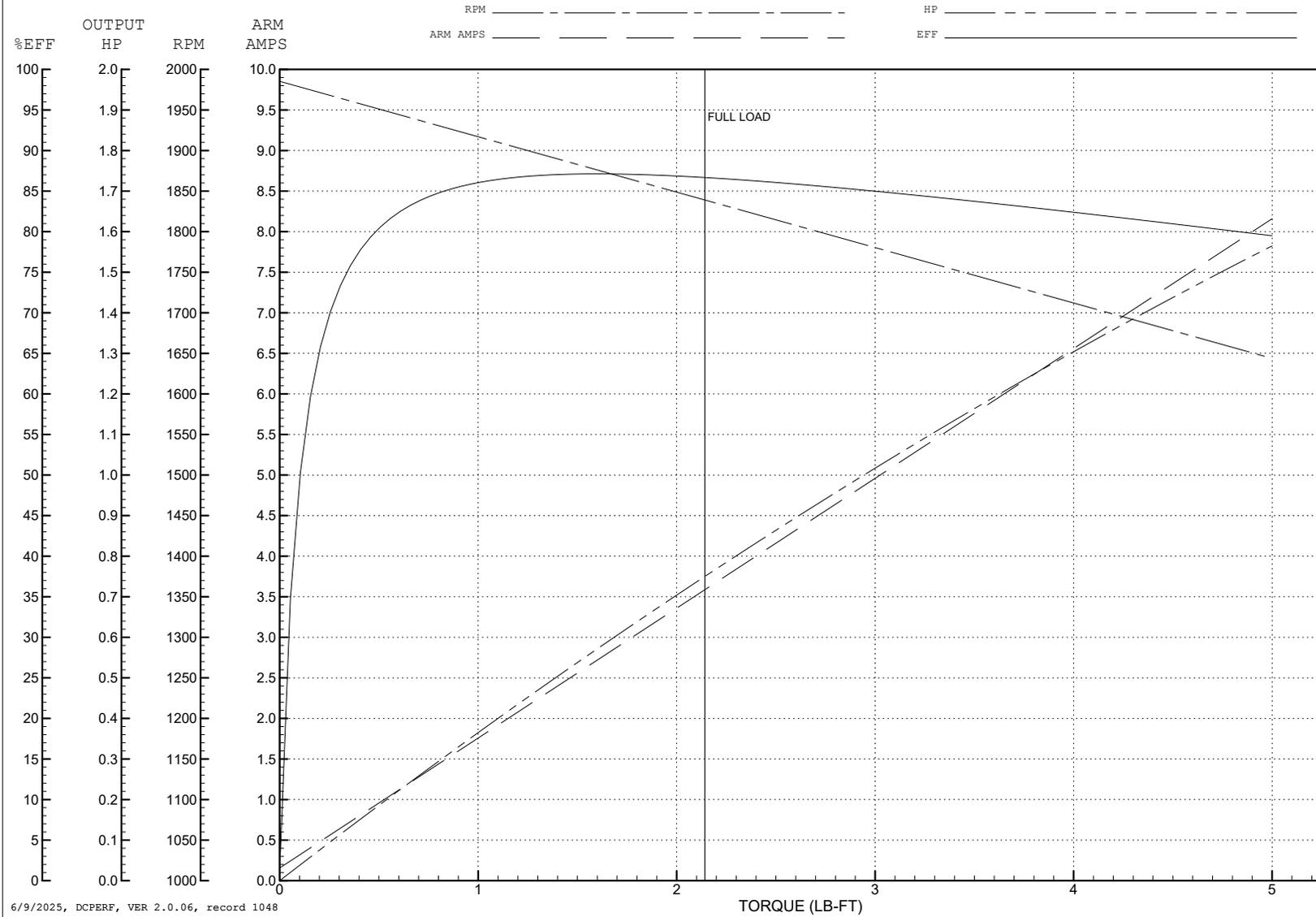
ABB Motors and Mechanical Inc.

WINDING # 34WG3946

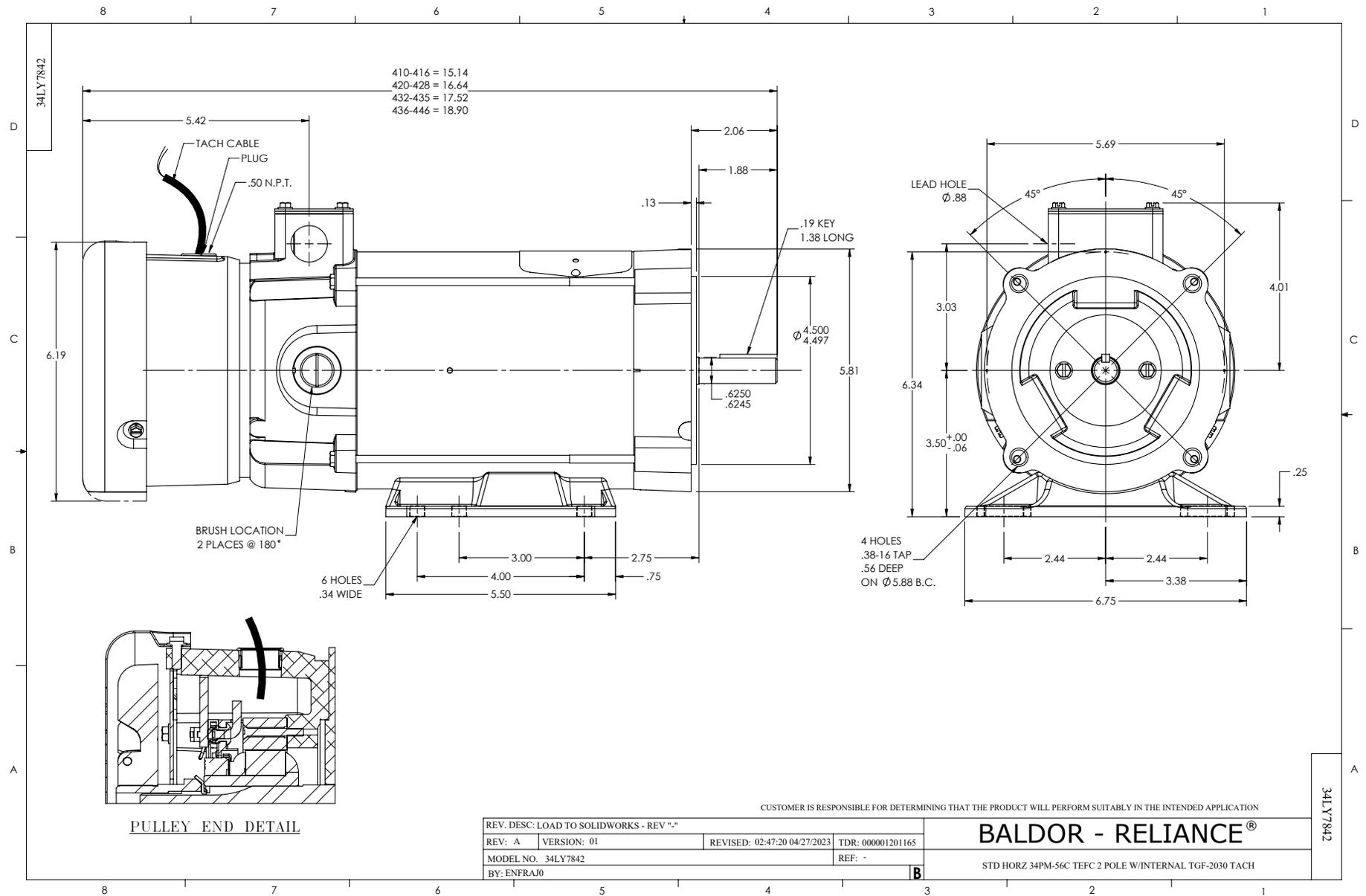
Typical performance - not guaranteed values.

0.75 HP DC 1750 RPM 180 V 3428P

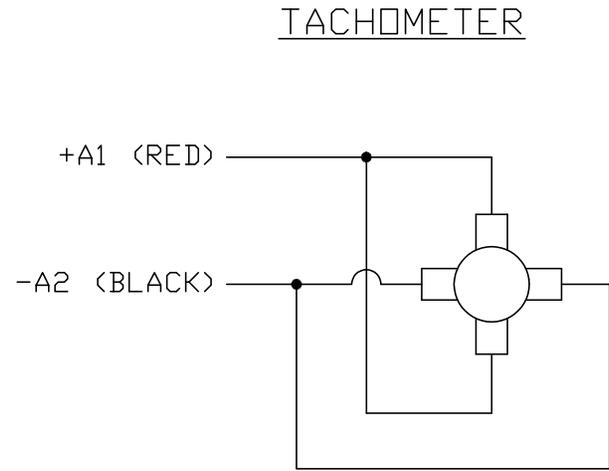
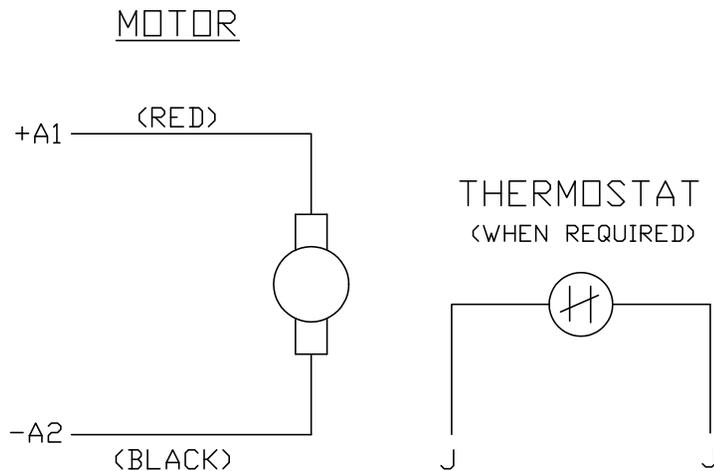
ENCL: TEFC DUTY: CONT CL: F



6/9/2025, DCPERF, VER 2.0.06, record 1048



CD0194



NOTES:

1. CCW ROTATION AS SHOWN FACING COMMUTATOR END. TO REVERSE MOTOR ROTATION OR TACHOMETER OUTPUT POLARITY INTERCHANGE LEADS A1(RED) & A2(BLACK)
2. LEAD COLORS FOR REFERENCE ONLY & NOT SPECIFIED BY THIS DRAWING. LEAD COLORS SPECIFIED BY LAYOUT DRAWING & BILL OF MATERIAL ONLY.

|         |  |              |                   |
|---------|--|--------------|-------------------|
| MATL: - |  |              |                   |
| REV: E  | ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &..." |              |                   |
| CD0194  | SCALE: -   | BY: CK       | REVISED: 07/28/95 |
|         | FILE: AAA00004503                                | TDR: 0078737 |                   |

**BALDOR ELECTRIC Co.**

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194