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# Customer information packet

## CDPX3410

.25HP, 1750RPM, DC, 56C, X3413P, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

## Specifications

|                               |                          |
|-------------------------------|--------------------------|
| Armature Voltage              | 90 V                     |
| Base Speed                    | 1750 rpm                 |
| Enclosure                     | XPFC                     |
| Frame                         | 56C                      |
| Frame Material                | Steel                    |
| Haz Area Class and Group      | CLI GP D; CLII GP F,G    |
| Output Power                  | 0.250 HP                 |
| Agency Approvals              | CSA<br>UL<br>UR          |
| Ambient Temperature           | 40 °C                    |
| Armature Current              | 2.7 a                    |
| Armature Inertia              | 5.073 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               | NO FEEDBACK              |
| Haz Area Temp Code            | T3C                      |
| Heater Indicator              | No Heater                |
| Lifting Lugs                  | No Lifting Lugs          |
| Motor Lead Exit               | Ko Box                   |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG, A            |
| Motor Lead Termination        | Flying Leads             |
| Motor Standards               | NEMA                     |
| Mounting Arrangement          | F1                       |
| Overall Length                | 13.87 IN                 |
| Product Family                | General Purpose          |
| Pulley End Bearing Type       | Sealed Bearing           |
| Service Factor                | 1.00                     |
| Shaft Diameter                | 0.625 IN                 |
| Shaft Extension Location      | Pulley End               |

## Part detail

|              |                  |
|--------------|------------------|
| Revision     | AH               |
| Type         | DC               |
| Mech. spec.  | 34-6519          |
| Base         |                  |
| Status       | PRD/A            |
| Elec. spec.  | 34WG3673         |
| Layout       | 34LY6519         |
| Eff. date    | 06-15-2023       |
| CD Diagram   | CD0194           |
| Poles        | 00               |
| Leads        | 2#14 A,2#18 JJ Y |
| Proprietary  | False            |
| Created date | 01-01-0001       |

|                         |                    |
|-------------------------|--------------------|
| Shaft Ground Indicator  | No Shaft Grounding |
| Shaft Rotation          | Reversible         |
| Shaft Slinger Indicator | No Slinger         |

## Nameplate

| NP0727XPSL |                |         |       |     |
|------------|----------------|---------|-------|-----|
| NO.        |                |         |       |     |
| SER.       |                |         |       |     |
| SPEC.      | 34-6519-3673G1 |         |       |     |
| CAT.NO.    | CDPX3410       | T. CODE |       | T3C |
| HP         | .25            | ENCL    | XPFC  |     |
| RPM        | 1750           |         |       |     |
| FRAME      | 56C            | TYPE    | 3413P |     |
| ARM V      | 90             | ARM A   | 2.7   |     |
| FLD V      |                | FLD A   |       |     |
| INSUL      | F              | AMB.    | 40    |     |
| DUTY       | CONT           | SUPPLY  | 1.5   |     |
| BRG/DE     | 6203           | BRG/ODE | 6203  |     |
| BRUSHES    | 2/BP5011CV01   |         |       |     |
| BLANK      |                |         |       |     |

**DC Motor Performance Data**

Record # 1427

Typical performance - not guaranteed values

| Winding: 34WG3673-R006 |              | Type: 3413P                   | Enclosure: TEFC |
|------------------------|--------------|-------------------------------|-----------------|
| Nameplate Data         |              | General Characteristics       |                 |
| Rated Output (HP)      | 0.25         | Armature Resistance<br>@ 25°C | 1.941 $\Omega$  |
| R.P.M.                 | 1750         |                               |                 |
| Armature Volts         | 90           | Voltage Constant              | 41.87 v/krpm    |
| Armature Amps          | 2.7          |                               |                 |
| Field Volts            |              | Armature Inductance           | 16.343 mH       |
| Field Amps             |              | Armature Inertia              | 5.0726 $LI^2$   |
| Rating - Duty          | 40C AMB-CONT |                               |                 |
| Form Factor            | 1.5          |                               |                 |

**Load Characteristics at 90 Armature Volts**

| Load Point       | 1    | 2     | 3     | 4     | 5    | 6     | 7     |
|------------------|------|-------|-------|-------|------|-------|-------|
| Armature Amps    | 0.58 | 1.14  | 1.62  | 2.17  | 2.83 | 3.46  | 4.12  |
| R.P.M.           | 2046 | 2020  | 1997  | 1958  | 1913 | 1863  | 1828  |
| Torque ( LB-FT ) | 0    | 0.188 | 0.375 | 0.563 | 0.75 | 0.938 | 1.125 |

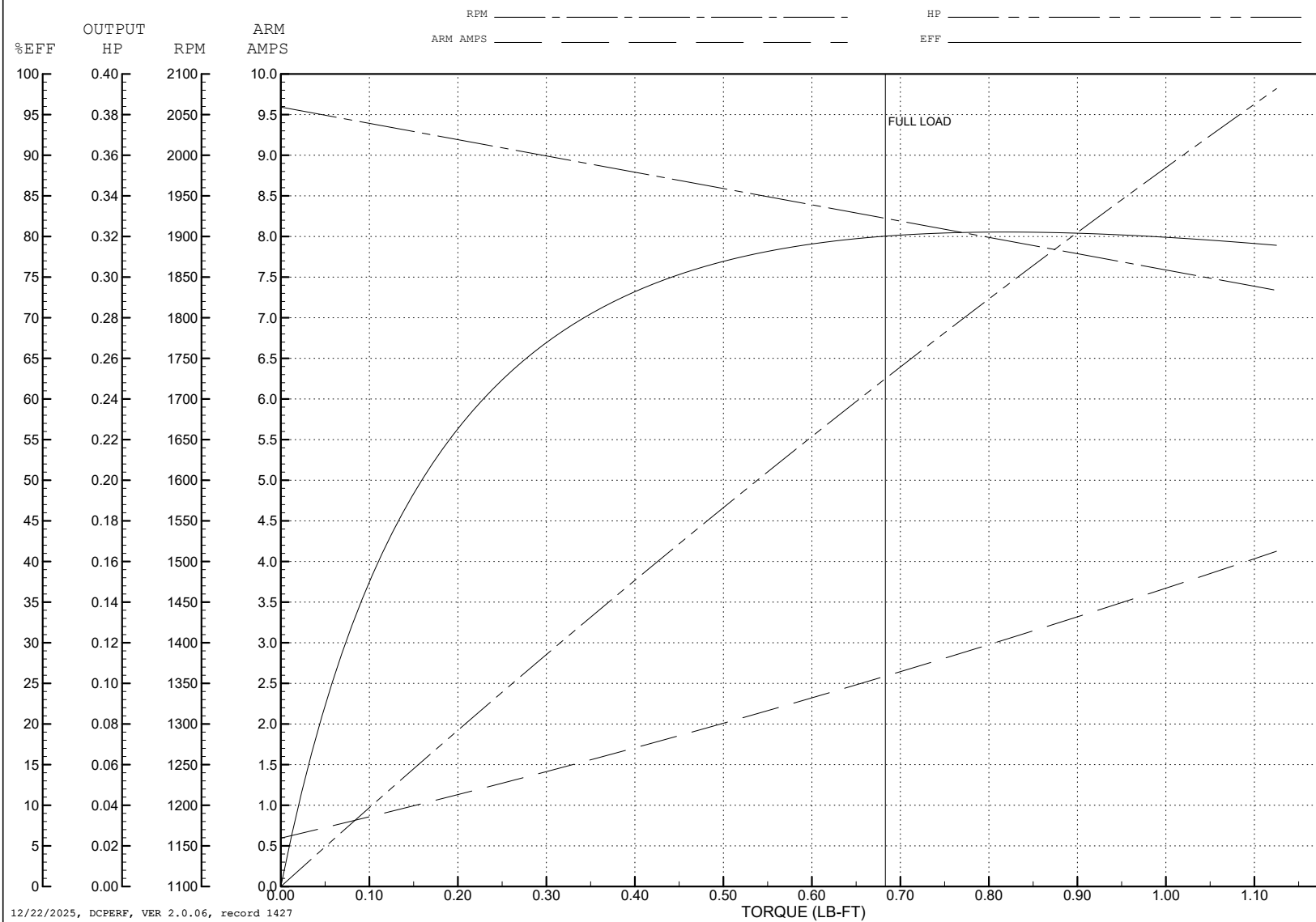
ABB Motors and Mechanical Inc.

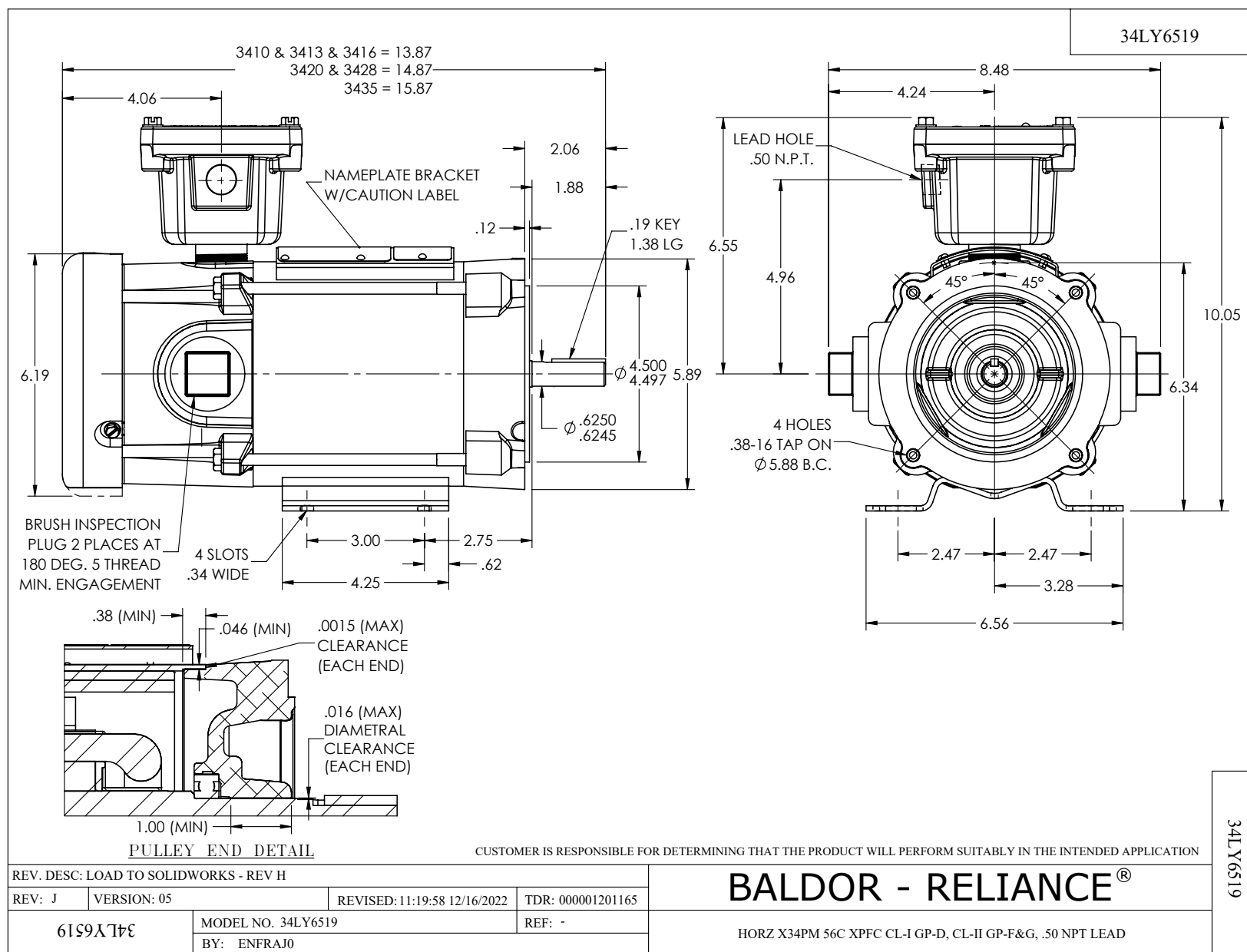
WINDING # 34WG3673

Typical performance - not guaranteed values.

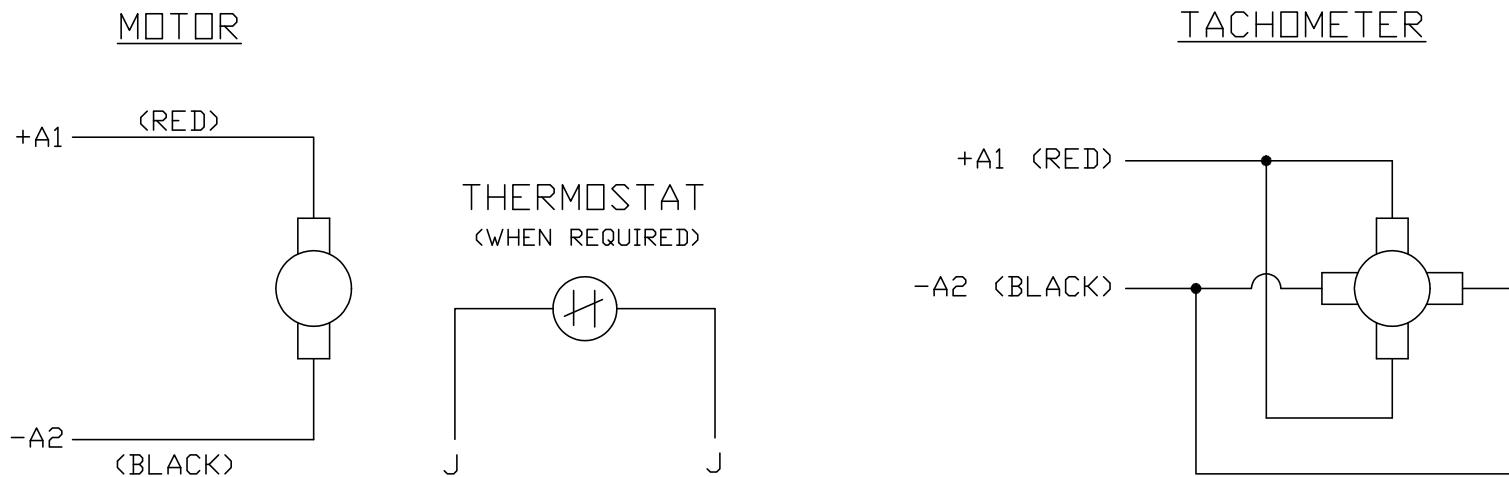
0.25 HP DC 1750 RPM 90 V 3413P

ENCL: TEFC DUTY: CONT CL: F





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       |
|         |   | FILE: AAA00004503                                | TDR: 0078737 |

**BALDOR ELECTRIC Co.**

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194