# Customer information packet

## CDPX3410

.25HP, 1750RPM, DC, 56C, X3413P, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division -

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11/16/2026 3:10:10 PM

## 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 |
| | UL |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Armature Current** | 2.7 a |
| **Armature Inertia** | 5.073 lb-ft2 |
| **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** | |
|---|---|
| **Rated Output (HP)** | 0.25 |
| **R.P.M.** | 1750 |
| **Armature Volts** | 90 |
| **Armature Amps** | 2.7 |
| **Field Volts** | |
| **Field Amps** | |
| **Rating - Duty** | 40C AMB-CONT |
| **Form Factor** | 1.5 |

| **General Characteristics** | |
|---|---|
| **Armature Resistance @ 25ºC** | 1.941 Ω |
| | |
| **Voltage Constant** | 41.87 v/krpm |
| | |
| **Armature Inductance** | 16.343 mH |
| **Armature Inertia** | 5.0726 LI² |
| | |
| | |

**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 |

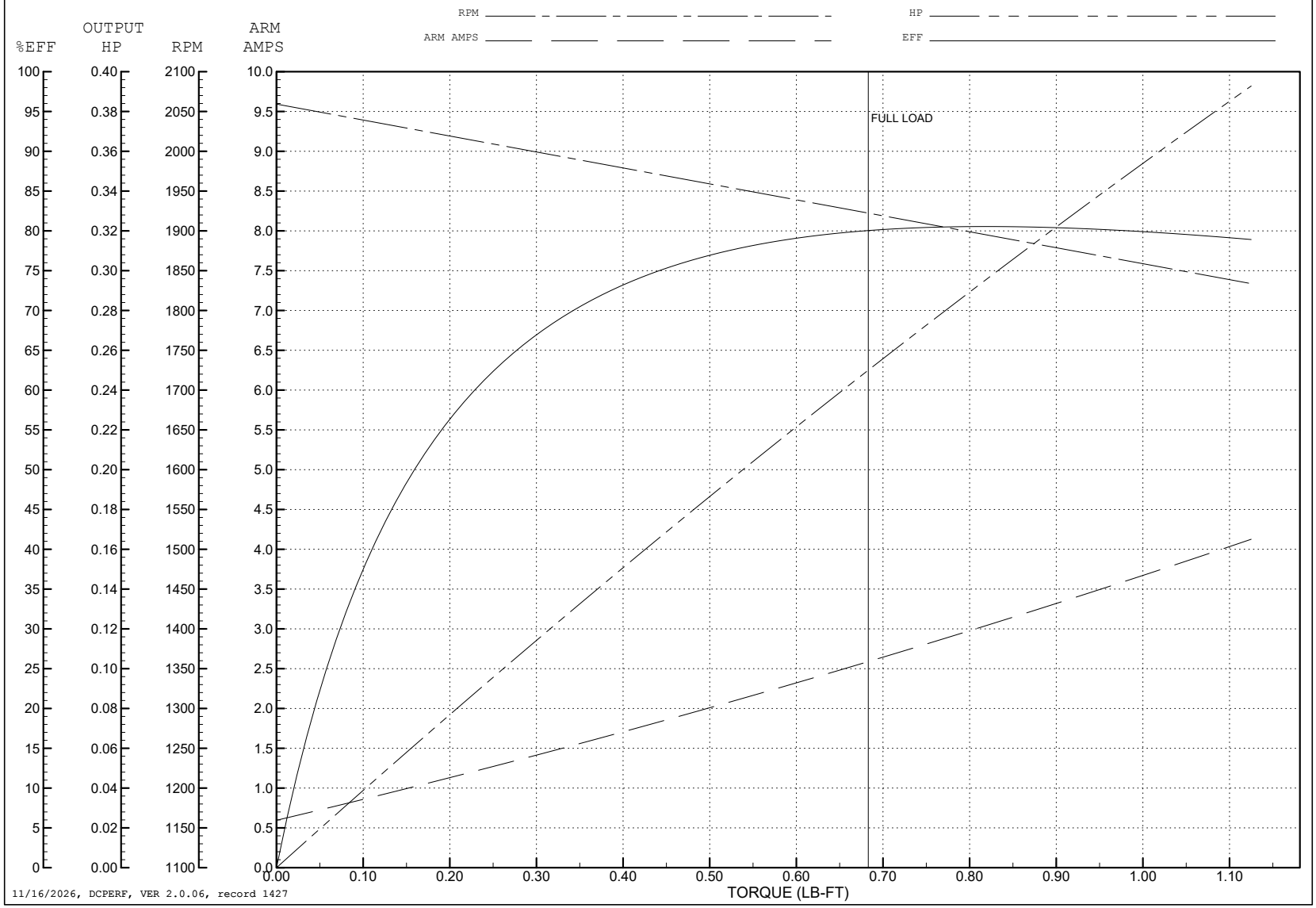
ABB Motors and Mechanical Inc.

WINDING # 34WG3673

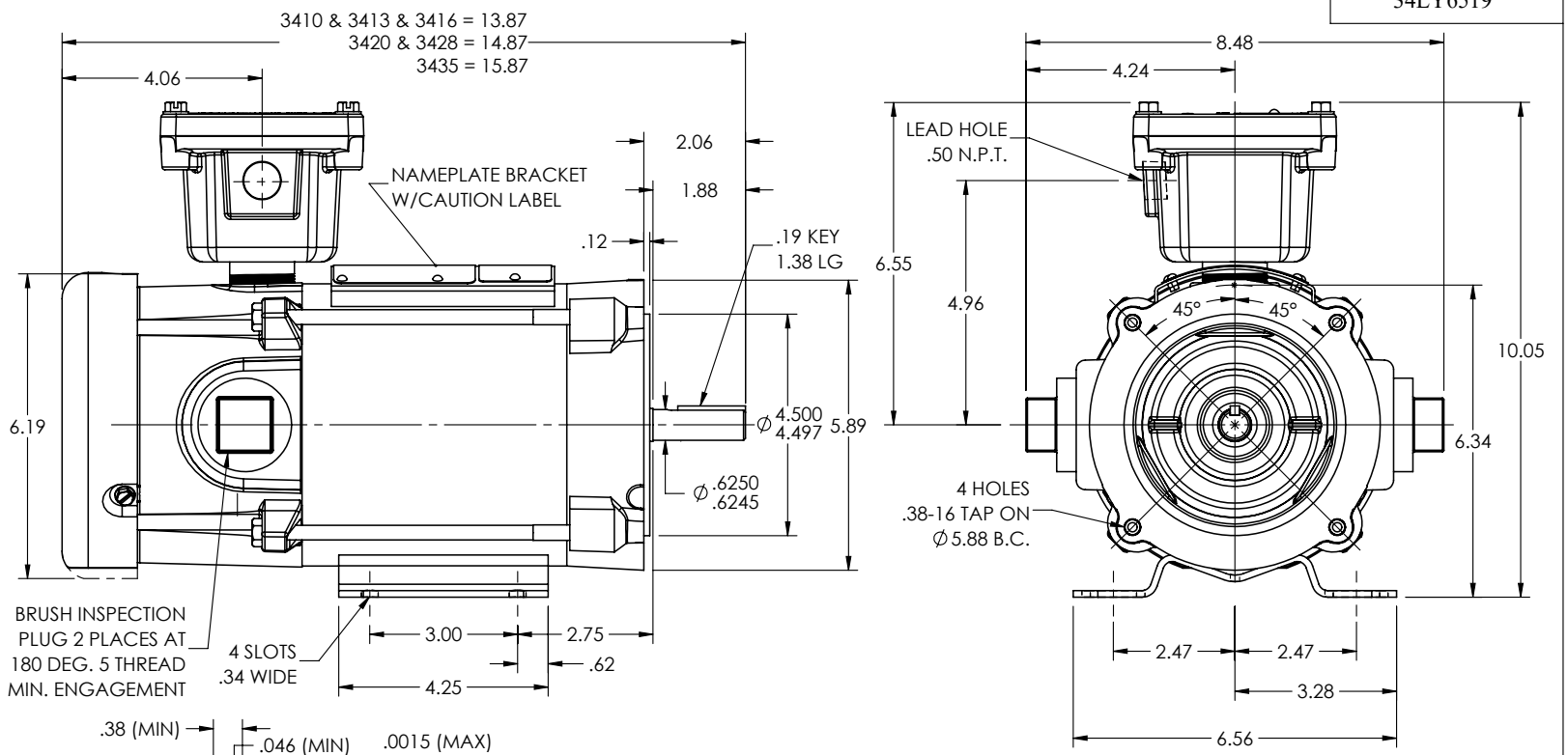
0.25 HP DC 1750 RPM 90 V 3413P

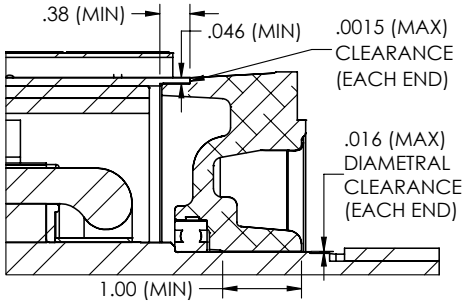
ENCL: TEFC DUTY: CONT CL: F

Typical performance - not guaranteed values.



34LY6519




PULLEY END DETAIL

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO SOLIDWORKS - REV H | | | |
| REV: J | VERSION: 05 | REVISED: 11:19:58 12/16/2022 | TDR: 000001201165 |
| 34LY6519 | MODEL NO. 34LY6519 | | REF: - |
| | BY: ENFRAJ0 | | |

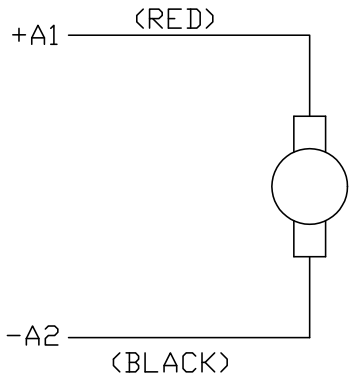
BALDOR - RELIANCE®

HORZ X34PM 56C XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD

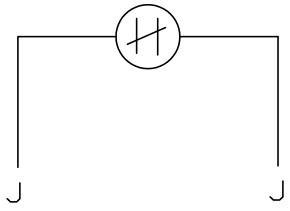
34LY6519

CD0194

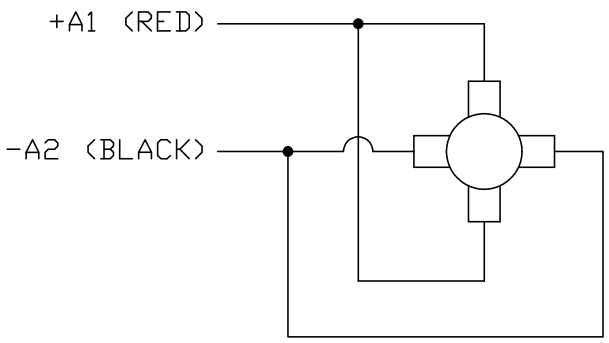
MOTOR




THERMOSTAT
(WHEN REQUIRED)




TACHOMETER




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.

CD0194

| | | | | |
|---|---|---|---|---|
| MATL: – | | | | BALDOR ELECTRIC Co. |
| REV: E | ADDED NOTE "LEAD COLORS FOR REFERENCE ONLY &.... | | | |
| CD0194 | SCALE: – | BY: CK | REVISED: 07/28/95 | CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS |
| | FILE: AAA00004503 | | TDR: 0078737 | |