



---

# Customer information packet

## VP3426-14

.37/.50KW, 1750RPM, DC, D71C, 3420P, TEFC, F2

Class - None

Division -

## Specifications

|                               |                          |
|-------------------------------|--------------------------|
| Armature Voltage              | 180 V                    |
| Base Speed                    | 1750 rpm                 |
| Enclosure                     | TEFC                     |
| Frame                         | D71C                     |
| Frame Material                | Steel                    |
| Haz Area Class and Group      | None                     |
| Output Power                  | 0.370 HP                 |
| Agency Approvals              | CE<br>CSA<br>UR          |
| Ambient Temperature           | 40 °C                    |
| Armature Current              | 2.5 a                    |
| Armature Inertia              | 7.804 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              |
| Frame Prefix                  | D                        |
| Heater Indicator              | No Heater                |
| Lifting Lugs                  | No Lifting Lugs          |
| Motor Lead Exit               | Ko Box                   |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG               |
| Motor Lead Termination        | Flying Leads             |
| Motor Standards               | IEC                      |
| Mounting Arrangement          | B34                      |
| Overall Length                | 13.77 IN                 |
| Product Family                | General Purpose          |
| Pulley End Bearing Type       | Sealed Bearing           |
| Service Factor                | 1.00                     |
| Shaft Diameter                | 0.552 IN                 |
| Shaft Extension Location      | Pulley End               |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AK         |
| Type         | DC         |
| Mech. spec.  | 34-6242    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG3950   |
| Layout       | 34LY6242   |
| Eff. date    | 10-25-2024 |
| CD Diagram   | CD0194     |
| Poles        | 00         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 01-01-0001 |

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

## Nameplate

| NP1049L   |                          |         |         |      |
|-----------|--------------------------|---------|---------|------|
| CAT.NO.   | VP3426-14                |         |         |      |
| SPEC.     | 34-6242-3950             |         |         |      |
| KW/HP     | .37/.50 TE               |         | I.P.    | 54   |
| RPM       | 1750 TE 1/MIN IC411 17KG |         |         |      |
| IEC FRAME | D71C                     | TYPE    | 3420P   |      |
| ARM V     | 180                      |         | ARM A   | 2.5  |
| FLD V     |                          |         | FLD A   |      |
| INSUL     | F                        | AMB.    | 40      |      |
| DUTY      | CONT                     |         | SUPPLY  | 1.5  |
| BRG/DE    | 6203                     | BRG/ODE |         | 6203 |
| BRUSHES   | 2/BP5000AW14             |         |         |      |
|           |                          |         | BLANK   |      |
| SER.      |                          |         |         |      |
| BLANK     | IEC60034-1;-5            |         |         |      |
| APRV-CE   | APRV-CSA                 |         | APRV-UL |      |

**Accessories**

| <b>Part number</b> | <b>Description</b>              | <b>Multiplier</b> |
|--------------------|---------------------------------|-------------------|
| TK3400             | TACHO MOUNTING KIT FOR TK3400   | A8                |
| TK3400-HPU         | HPU10 MOUNTING KIT 34P/35P TEFC | A8                |

**DC Motor Performance Data**

Record # 561

Typical performance - not guaranteed values

| Winding: 34WG3950-R004 |              | Type: 3420P                   | Enclosure: TEFC |
|------------------------|--------------|-------------------------------|-----------------|
| Nameplate Data         |              | General Characteristics       |                 |
| Rated Output (KW)      | 0.37         | Armature Resistance<br>@ 25°C | 5.12 Ω          |
| R.P.M.                 | 1750         |                               |                 |
| Armature Volts         | 180          |                               |                 |
| Armature Amps          | 2.5          |                               |                 |
| Field Volts            |              | Armature Inductance           | 43.61 mH        |
| Field Amps             |              |                               |                 |
| Rating - Duty          | 40C AMB-CONT |                               |                 |
| Form Factor            | 1.5          |                               |                 |

**Load Characteristics at 180 Armature Volts**

| Load Point       | 1    | 2    | 3     | 4    | 5     | 6    | 7    |
|------------------|------|------|-------|------|-------|------|------|
| Armature Amps    | 0.1  | 1.2  | 1.7   | 2.3  | 2.8   | 3.4  | 4.6  |
| R.P.M.           | 1872 | 1791 | 1752  | 1707 | 1670  | 1632 | 1552 |
| Torque ( LB-FT ) | 0    | 0.75 | 1.125 | 1.5  | 1.875 | 2.25 | 3    |

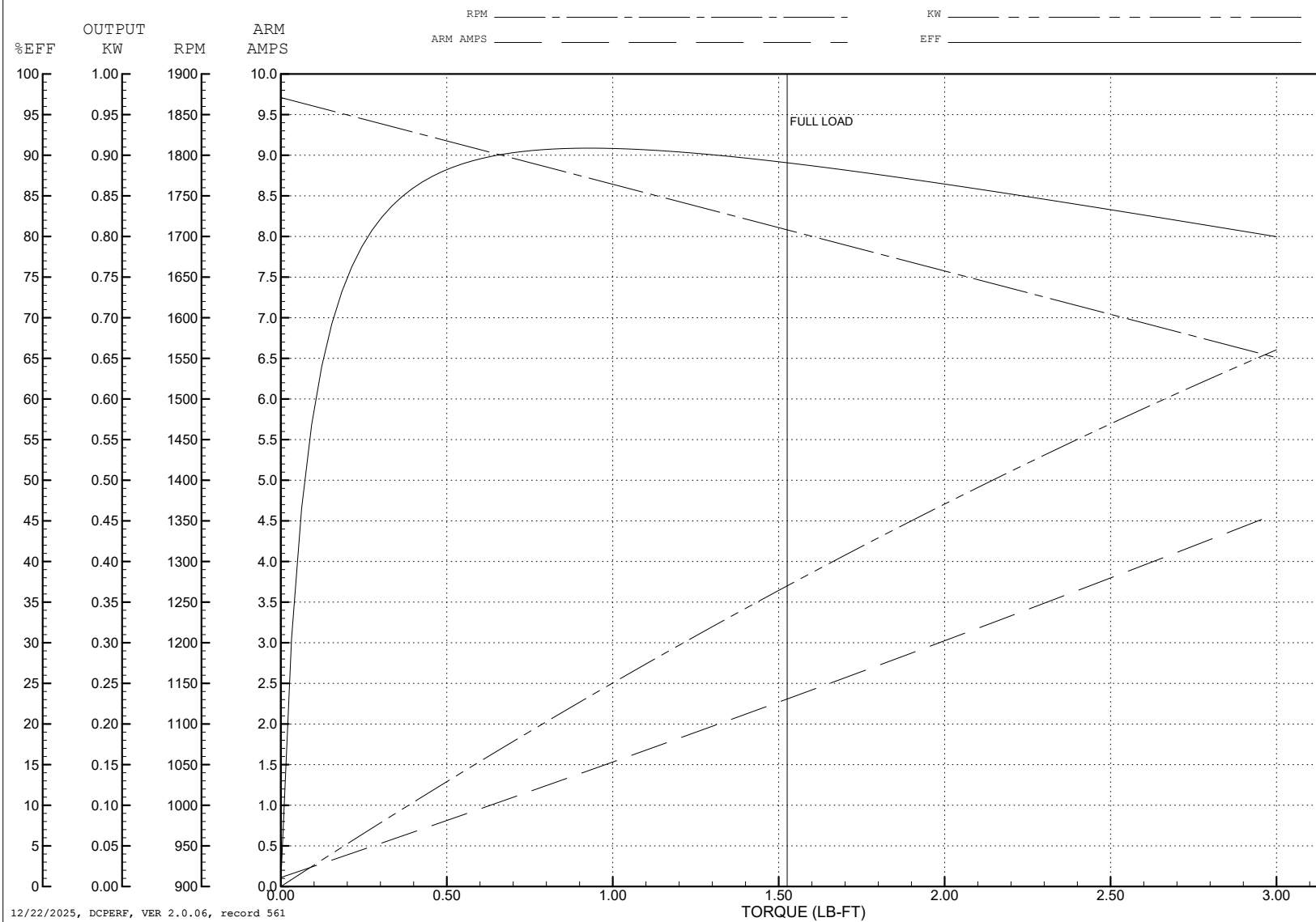
ABB Motors and Mechanical Inc.

WINDING # 34WG3950

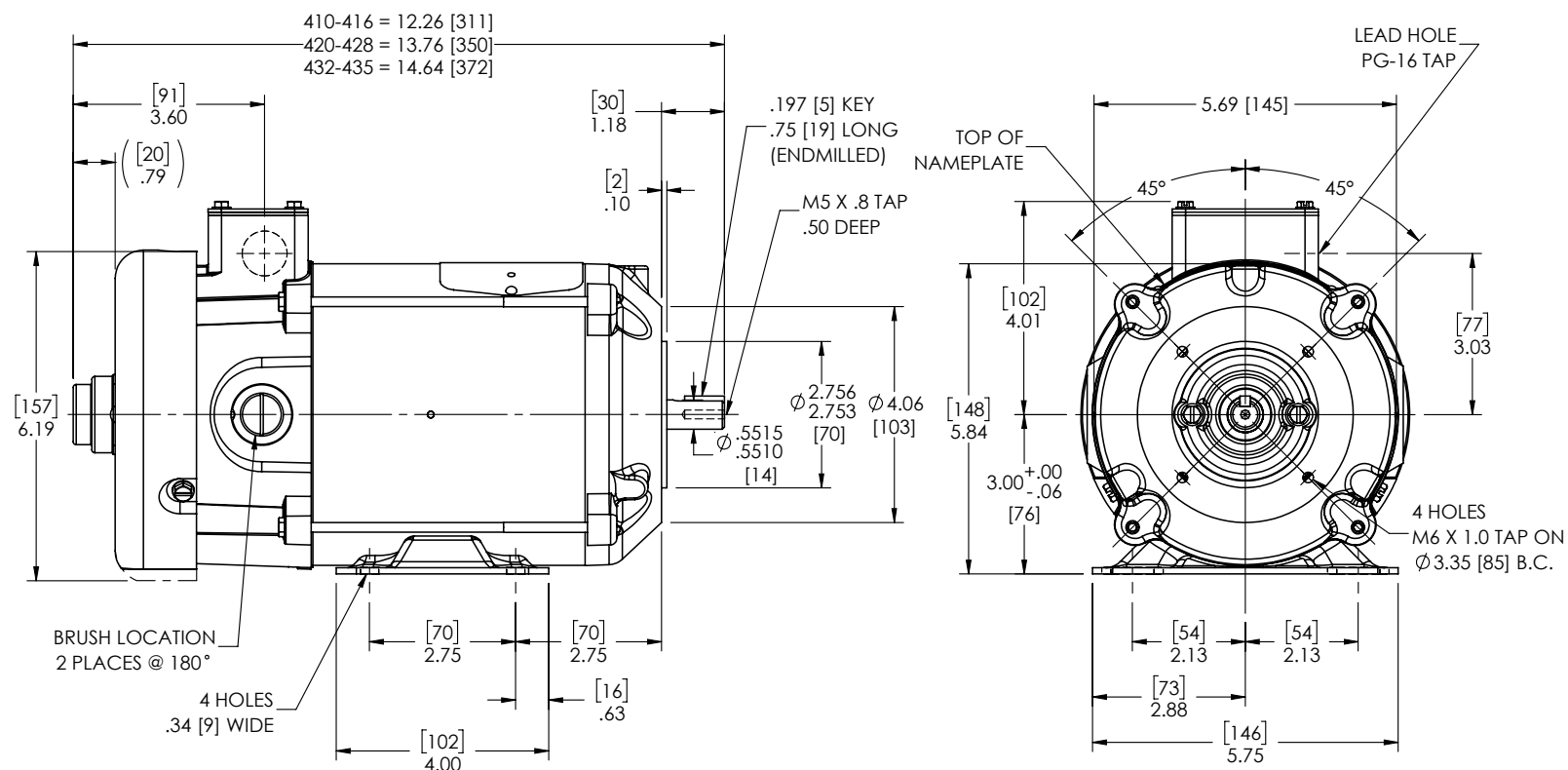
Typical performance - not guaranteed values.

0.37 KW DC 1750 RPM 180 V 3420P

ENCL: TEFC DUTY: CONT CL: F



34LY6242



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

REV. DESC: LOAD TO SOLIDWORKS - REV N

REV: P

VERSION: 02

REVISED: 11:41:34 12/22/2022

TDR: 000001201165

**BALDOR - RELIANCE®**

34LY6242

MODEL NO. 34LY6242

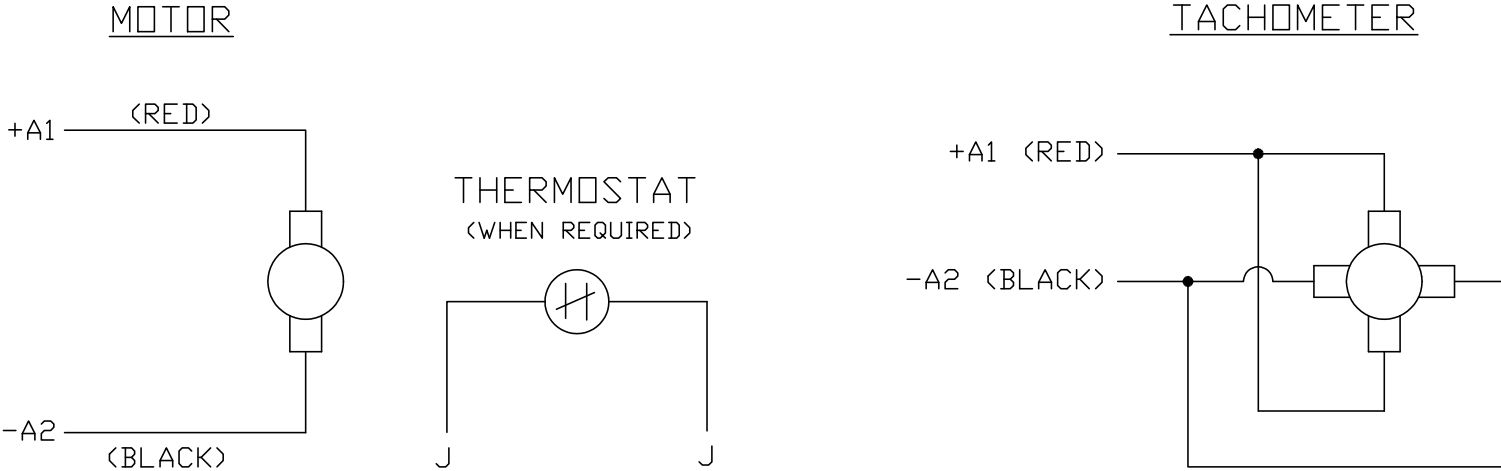
REF: -

BY: ENFRAJ0

STD HORZ MODEL 34 PM TEFC IEC D71C-B14 2 POLE W/M.F.T.K.

34LY6242

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