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# Customer information packet

## VP3455D

.75/1HP, 1750RPM, DC, D80D, 3435P, TEFC, F2

Class - None

Division -

## Specifications

|                               |                           |
|-------------------------------|---------------------------|
| Armature Voltage              | 180 V                     |
| Base Speed                    | 1750 rpm                  |
| Enclosure                     | TEFC                      |
| Frame                         | D80D                      |
| Frame Material                | Steel                     |
| Haz Area Class and Group      | None                      |
| Output Power                  | 1.000 HP                  |
| Agency Approvals              | CE<br>CSA<br>UR           |
| Ambient Temperature           | 40 °C                     |
| Armature Current              | 5.0 a                     |
| Armature Inertia              | 13.657 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          | B35                       |
| Overall Length                | 15.22 IN                  |
| Product Family                | BISSIC                    |
| Pulley End Bearing Type       | Sealed Bearing            |
| Service Factor                | 1.00                      |
| Shaft Diameter                | 0.748 IN                  |
| Shaft Extension Location      | Pulley End                |

## Part detail

|              |            |
|--------------|------------|
| Revision     | P          |
| Type         | DC         |
| Mech. spec.  | 34-6483    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG3865   |
| Layout       | 34LY6483   |
| 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.   | VP3455D                  |         |            |  |
| SPEC.     | 34-6483-3865             |         |            |  |
| KW/HP     | .75/1 IC411              | I.P.    | 54 TE 21KG |  |
| RPM       | 1750 1/MIN IEC60034-1;-5 |         |            |  |
| IEC FRAME | D80D                     | TYPE    | 3435P      |  |
| ARM V     | 180                      | ARM A   | 5          |  |
| FLD V     |                          | FLD A   |            |  |
| INSUL     | F                        | AMB.    | 40         |  |
| DUTY      | CONT                     | SUPPLY  | 1.5        |  |
| BRG/DE    | 6206                     | BRG/ODE | 6203       |  |
| BRUSHES   | 2/BP5000AW14             |         |            |  |
|           |                          | BLANK   |            |  |
| SER.      |                          |         |            |  |
| BLANK     |                          |         |            |  |
| APRV-CE   | APRV-CSA                 | APRV-UL |            |  |

**Accessories**

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

**DC Motor Performance Data**

Record # 237

Typical performance - not guaranteed values

| Winding: 34WG3865-R001 |              | Type: 3435P                   | Enclosure: TEFC |
|------------------------|--------------|-------------------------------|-----------------|
| Nameplate Data         |              | General Characteristics       |                 |
| Rated Output (HP)      | 1            | Armature Resistance<br>@ 25°C | 1.9971 $\Omega$ |
| R.P.M.                 | 1750         |                               |                 |
| Armature Volts         | 180          |                               |                 |
| Armature Amps          | 5            |                               |                 |
| Field Volts            |              |                               |                 |
| 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    | 0.23 | 1.41 | 2.52 | 3.66 | 4.83 | 7.05 | 9.26 |
| R.P.M.           | 1870 | 1829 | 1794 | 1755 | 1720 | 1643 | 1590 |
| Torque ( LB-FT ) | 0    | 0.75 | 1.51 | 2.26 | 3.05 | 4.55 | 6.03 |

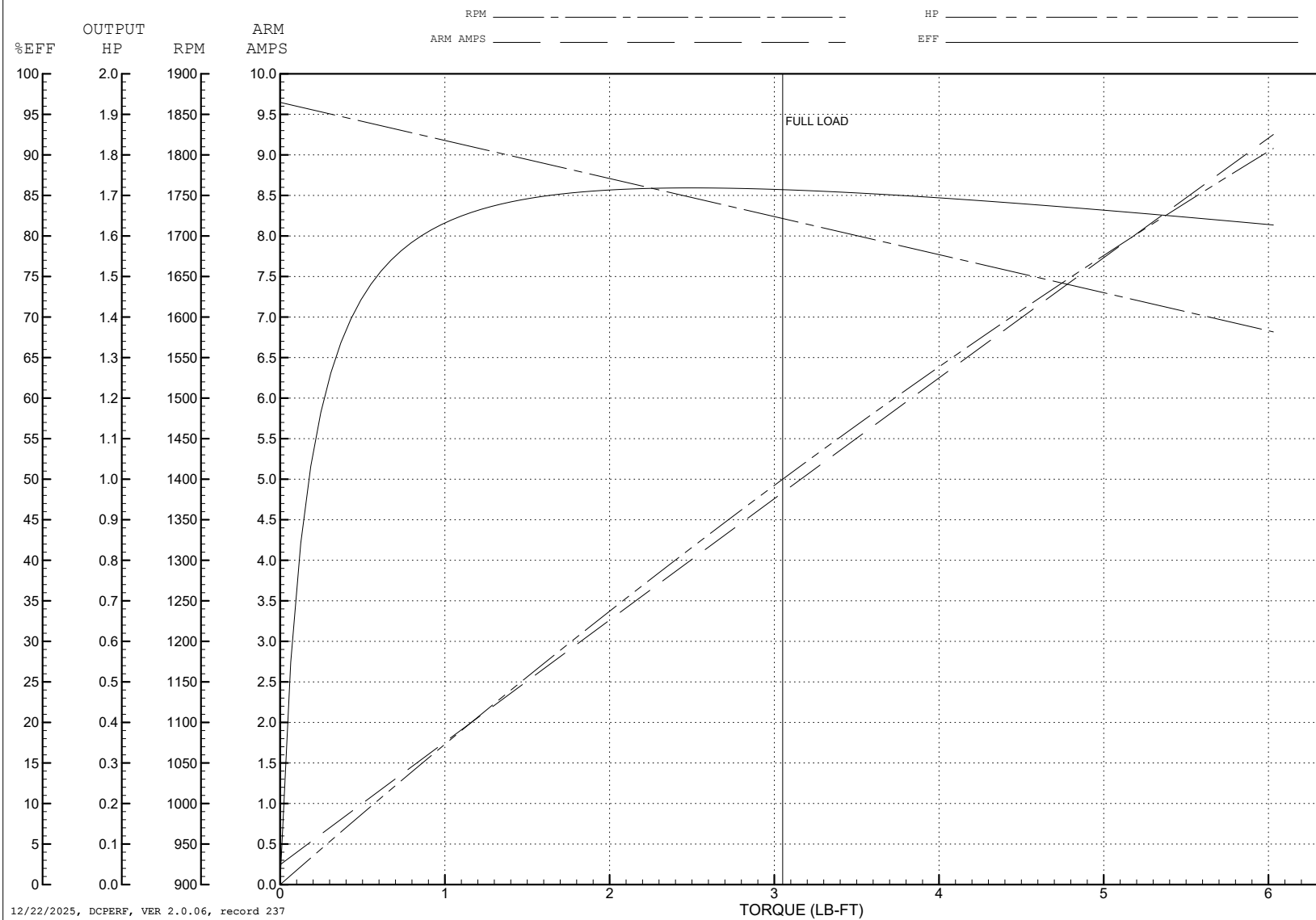
ABB Motors and Mechanical Inc.

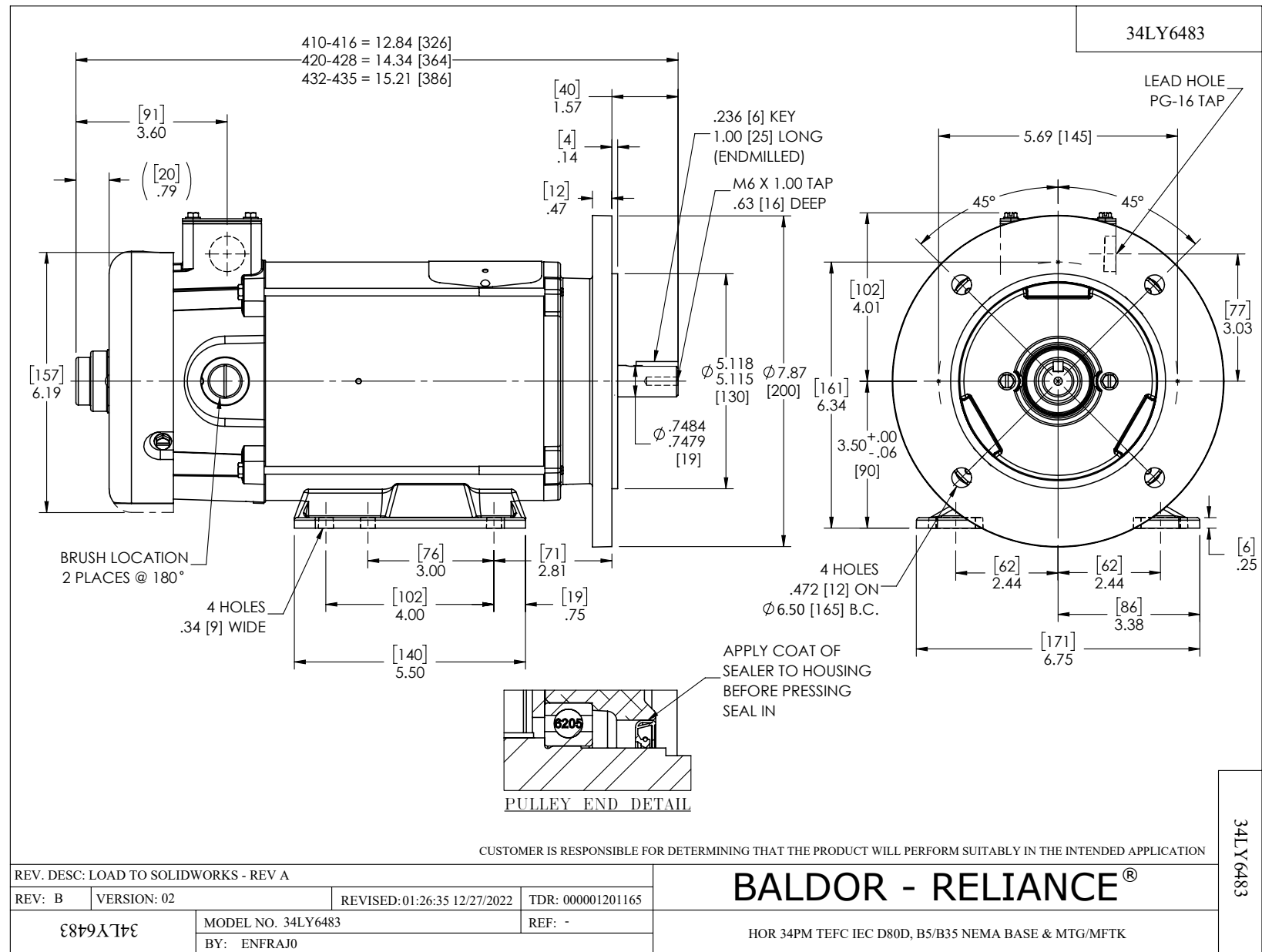
WINDING # 34WG3865

Typical performance - not guaranteed values.

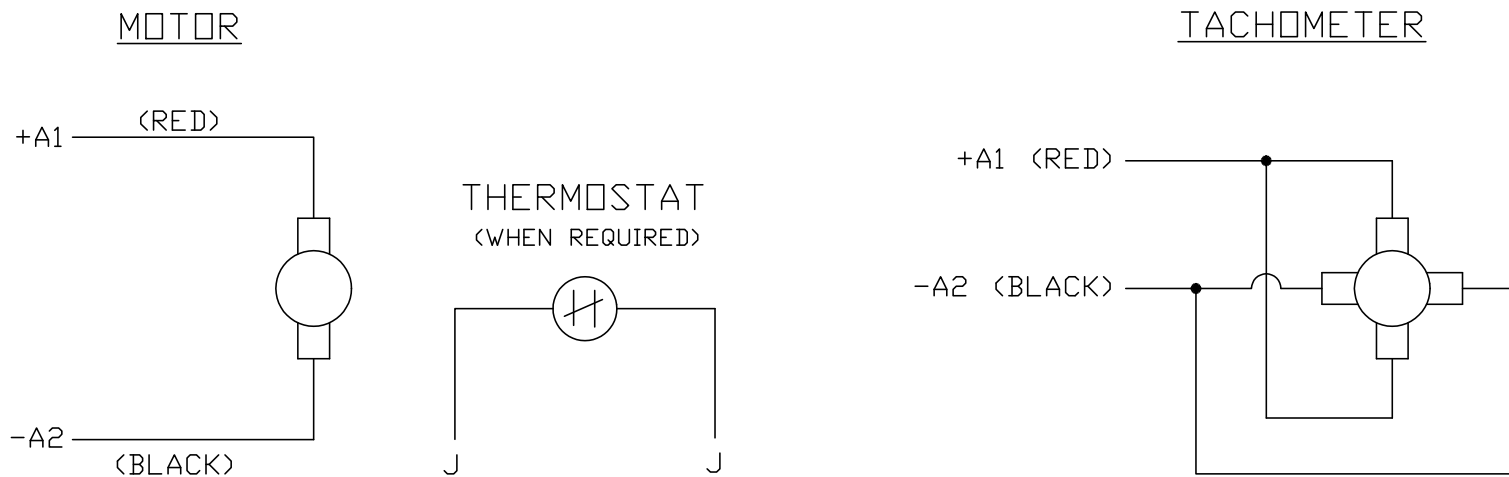
1 HP DC 1750 RPM 180 V 3435P

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