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# Customer information packet

## D1152

.5HP, 1750RPM, DC, 56, 3420D, TEFC, F1

Class - None

Division -

## Specifications

|                               |                            |
|-------------------------------|----------------------------|
| Armature Voltage              | 115 V                      |
| Base Speed                    | 1750 rpm                   |
| Enclosure                     | TEFC                       |
| Frame                         | 56                         |
| Frame Material                | Steel                      |
| Haz Area Class and Group      | None                       |
| Output Power                  | 0.500 HP                   |
| Agency Approvals              | CSA<br>UR                  |
| Ambient Temperature           | 40 °C                      |
| Armature Current              | 4.8 a                      |
| Armature Inertia              | 4.680 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                |
| Field Winding Type            | COMPOUND                   |
| Heater Indicator              | No Heater                  |
| Insulation Class              | F                          |
| Lifting Lugs                  | No Lifting Lugs            |
| Motor Lead Exit               | Ko Box                     |
| Motor Lead Quantity/Wire Size | 2 @ 14 AWG<br>2 @ 18 AWG   |
| Motor Lead Termination        | Flying Leads               |
| Motor Standards               | NEMA                       |
| Mounting Arrangement          | F1                         |
| Overall Length                | 13.54 IN                   |
| Product Family                | WP Below Decks Marine Duty |
| Pulley End Bearing Type       | Sealed Bearing             |
| RoHS Status                   | ROHS COMPLIANT             |
| Service Factor                | 1.00                       |

## Part detail

|              |            |
|--------------|------------|
| Revision     | AA         |
| Type         | DC         |
| Mech. spec.  | 34-6121    |
| Base         |            |
| Status       | PRD/A      |
| Elec. spec.  | 34WG3116   |
| Layout       | 34LY6121   |
| Eff. date    | 10-25-2024 |
| CD Diagram   | CD0862B01  |
| Poles        | 00         |
| Leads        |            |
| Proprietary  | False      |
| Created date | 01-01-0001 |

|                          |                    |
|--------------------------|--------------------|
| Shaft Diameter           | 0.625 IN           |
| Shaft Extension Location | Pulley End         |
| Shaft Ground Indicator   | No Shaft Grounding |
| Shaft Rotation           | Reversible         |
| Shaft Slinger Indicator  | Shaft Slinger      |

## Nameplate

| NP2801L  |              |         |       |
|----------|--------------|---------|-------|
| CAT.NO.  | D1152        |         |       |
| SPEC.    | 34-6121-3116 |         |       |
| HP       | .5           | ENCL    | TEFC  |
| RPM      | 1750         |         |       |
| FRAME    | 56           | TYPE    | 3420D |
| ARM V    | 115          | ARM A   | 4.6   |
| FLD V    | 115          | FLD A   | .37   |
| INSUL    | F            | AMB.    | 40    |
| DUTY     | CONT         | SUPPLY  | A     |
| BRG/DE   | 6203         | BRG/ODE | 6203  |
| BRUSHES  | 2/BP5000H03  |         |       |
|          | IEEE 45      | BLANK   |       |
| SER.     |              |         |       |
| BLANK    | --           |         |       |
| APRV-CSA | APRV-UL      |         |       |

**DC Motor Performance Data**

Record # 1419

Typical performance - not guaranteed values

| Winding: 34WG3116-R001 |              | Type: 3420D                         | Enclosure: TEFC |
|------------------------|--------------|-------------------------------------|-----------------|
| Nameplate Data         |              | General Characteristics             |                 |
| Rated Output (HP)      | 0.5          | Armature Resistance<br>@ 25°C       | 2.6 $\Omega$    |
| R.P.M.                 | 1750         |                                     |                 |
| Armature Volts         | 115          | Series Winding Resistance<br>@ 25°C | 0.493 $\Omega$  |
| Armature Amps          | 4.8          | Shunt Winding Resistance<br>@ 25°C  | 247 $\Omega$    |
| Field Volts            |              |                                     |                 |
| Field Amps             |              |                                     |                 |
| Rating - Duty          | 40C AMB-CONT |                                     |                 |
| Power Supply Code      | K            |                                     |                 |

**Load Characteristics at 115 Armature Volts**

| Load Point       | 1    | 2    | 3     | 4    | 5     | 6    |
|------------------|------|------|-------|------|-------|------|
| Armature Amps    | 0.34 | 2.04 | 3.05  | 3.84 | 4.74  | 5.64 |
| R.P.M.           | 1982 | 1854 | 1781  | 1733 | 1671  | 1602 |
| Torque ( LB-FT ) | 0    | 0.75 | 1.125 | 1.5  | 1.875 | 2.25 |

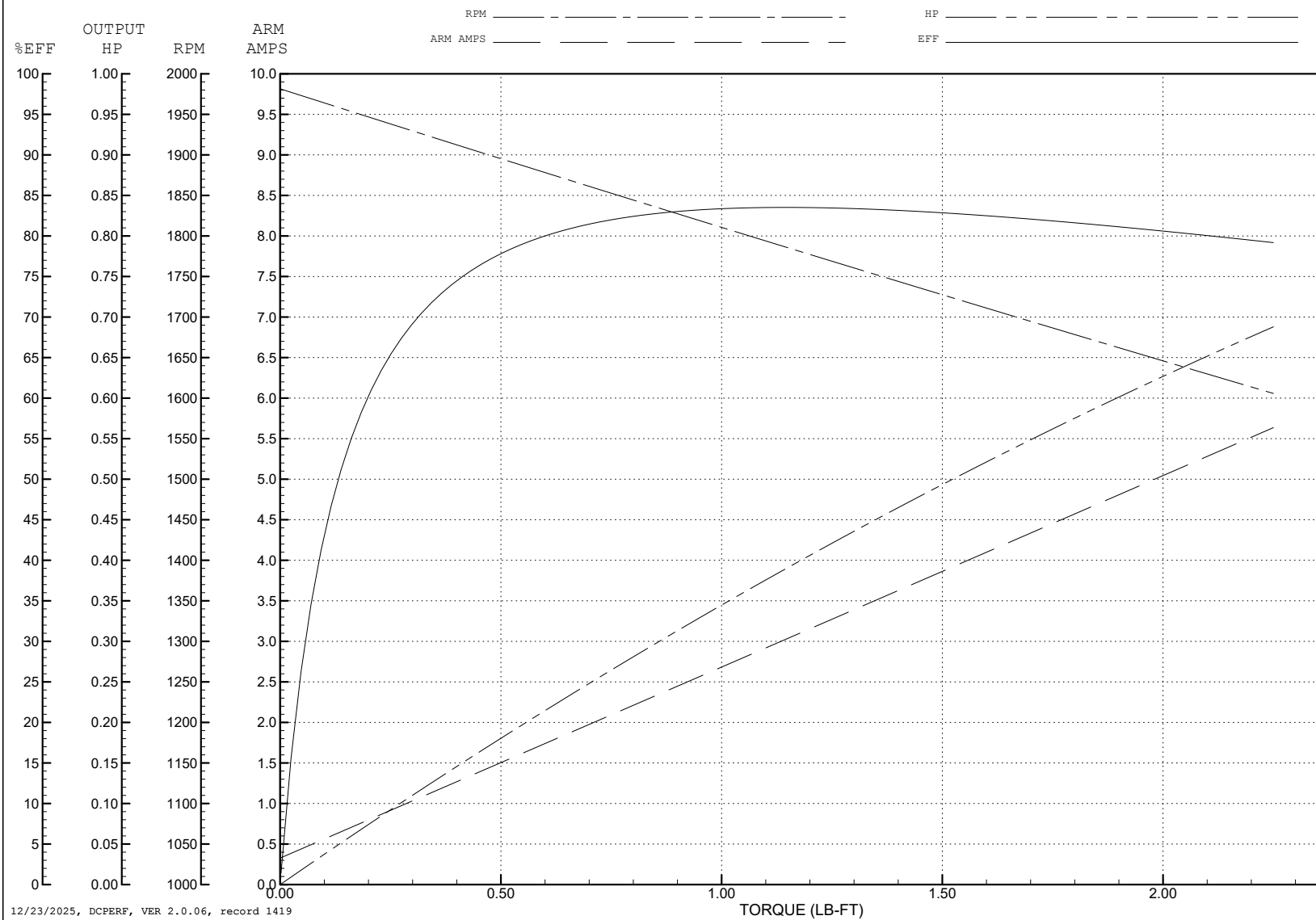
ABB Motors and Mechanical Inc.

WINDING # 34WG3116

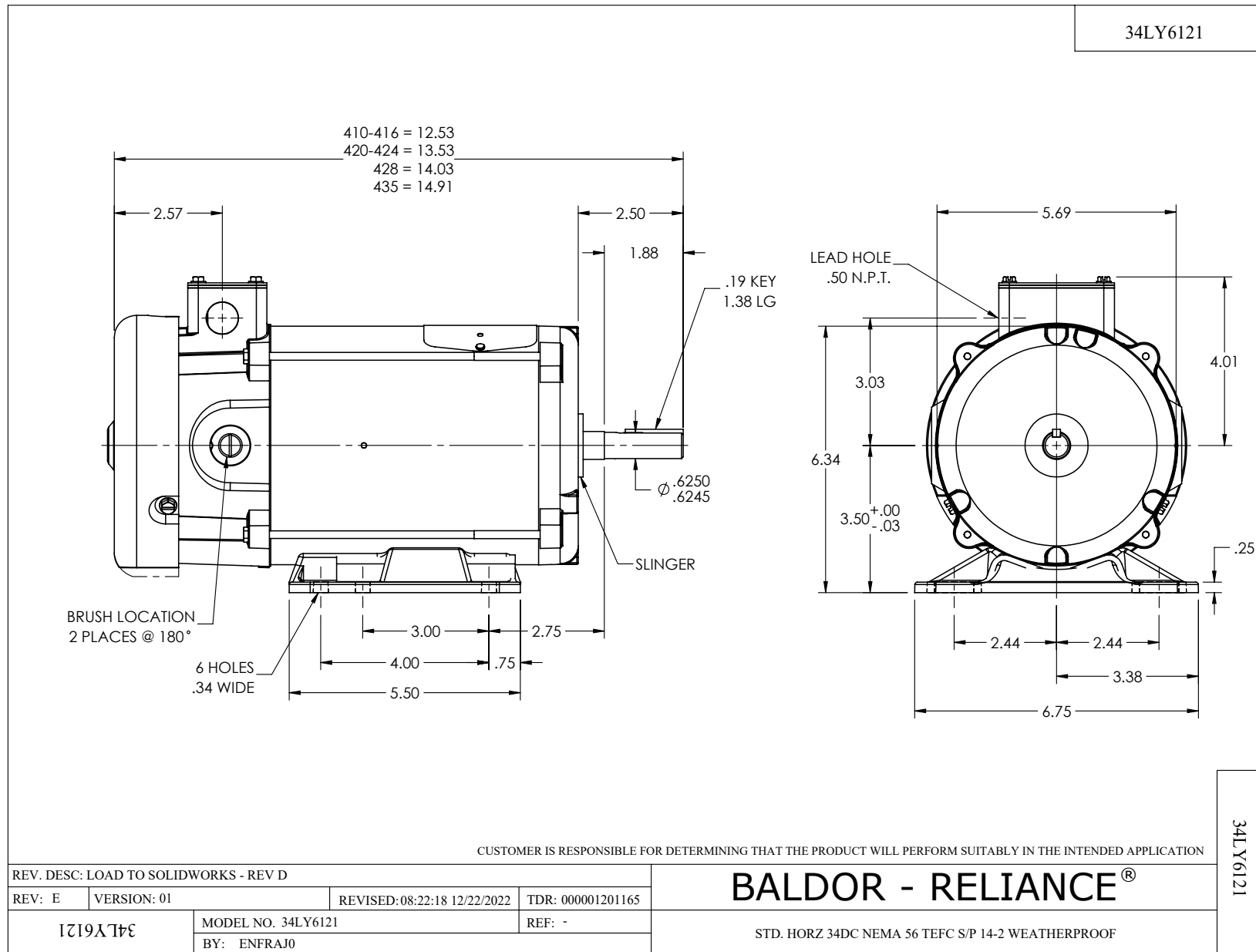
Typical performance - not guaranteed values.

0.5 HP DC 1750 RPM 115 V 3420D

ENCL: TEFC DUTY: CONT CL: F

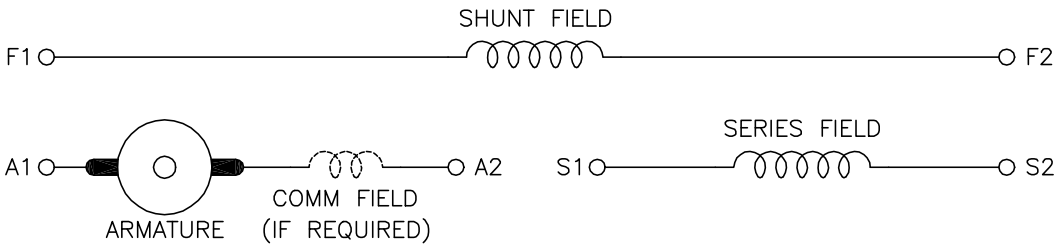


12/23/2025, DCPERF, VER 2.0.06, record 1419



CD0862B01

COMPOUND WOUND



| DIRECTION OF ROTATION |                 |                 |                 |
|-----------------------|-----------------|-----------------|-----------------|
| CWDE                  |                 | CCWDE           |                 |
| POS TERM<br>(+)       | NEG TERM<br>(-) | POS TERM<br>(+) | NEG TERM<br>(-) |
| A1                    | S2              | A2              | S2              |
| F1                    | F2              | F1              | F2              |
| CONNECT A2 & S1       |                 | CONNECT A1 & S1 |                 |

NOTES:

1. LIMIT STARTING INRUSH CURRENT TO NOT MORE THAN 3 TIMES RATED AMPERES BY ENERGIZING THE FULL SHUNT FIELD BEFORE BRINGING THE ARMATURE VOLTAGE UP SLOWLY OR IN STEPS.
2. OPTIONAL FIELD REOSTAT MAY BE CONNECTED IN SERIES WITH THE SHUNT FIELD.
3. OPTIONAL THERMOSTAT LEADS ARE MARKED J,J.

REV. DESC: NEW, REPLACE CD0862

REV. LTR: -

BY: JLP

REVISED: 16:10:51 11/03/2004

TDR: 347796

CD0862B01

FILE: AAA00121482

MTL: -

REF: CD0862B01

BALDOR ELECTRIC Co.

DC CONNECTION DIAGRAM, COMPOUND FIELD, 6 LEAD

CD0862B01