

# ABB BALDOR RELIANCE III

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## Customer information packet

### CDPX3436

.75HP, 1750RPM, DC, 56C, X3435P, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division -

**Specifications**

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Armature Voltage</b>              | 180 V                     |
| <b>Base Speed</b>                    | 1750 rpm                  |
| <b>Enclosure</b>                     | XPFC                      |
| <b>Frame</b>                         | 56C                       |
| <b>Frame Material</b>                | Steel                     |
| <b>Haz Area Class and Group</b>      | CLI GP D; CLII GP F,G     |
| <b>Output Power</b>                  | 0.750 HP                  |
| <b>Agency Approvals</b>              | CSA<br>UL<br>UR           |
| <b>Ambient Temperature</b>           | 40 °C                     |
| <b>Armature Current</b>              | 3.5 a                     |
| <b>Armature Inertia</b>              | 13.657 lb-ft <sup>2</sup> |
| <b>Base Indicator</b>                | Rigid                     |
| <b>Bearing Grease Type</b>           | Polyrex EM (-20F +300F)   |
| <b>Drip Cover</b>                    | No Drip Cover             |
| <b>Duty Rating</b>                   | CONT                      |
| <b>Feedback Device</b>               | NO FEEDBACK               |
| <b>Haz Area Temp Code</b>            | T3C                       |
| <b>Heater Indicator</b>              | No Heater                 |
| <b>Insulation Class</b>              | F                         |
| <b>Lifting Lugs</b>                  | No Lifting Lugs           |
| <b>Motor Lead Exit</b>               | Ko Box                    |
| <b>Motor Lead Quantity/Wire Size</b> | 2 @ 14 AWG, A             |
| <b>Motor Lead Termination</b>        | Flying Leads              |
| <b>Motor Standards</b>               | NEMA                      |
| <b>Mounting Arrangement</b>          | F1                        |
| <b>Overall Length</b>                | 15.87 IN                  |
| <b>Product Family</b>                | General Purpose           |
| <b>Pulley End Bearing Type</b>       | Sealed Bearing            |
| <b>Service Factor</b>                | 1.00                      |
| <b>Shaft Diameter</b>                | 0.625 IN                  |

**Part Detail**

|                     |                  |
|---------------------|------------------|
| <b>Revision</b>     | AG               |
| <b>Type</b>         | DC               |
| <b>Mech. spec.</b>  | 34-6519          |
| <b>Base</b>         |                  |
| <b>Status</b>       | PRD/A            |
| <b>Elec. spec.</b>  | 34WG3865         |
| <b>Layout</b>       | 34LY6519         |
| <b>Eff. date</b>    | 06-15-2023       |
| <b>CD Diagram</b>   | CD0194           |
| <b>Poles</b>        | 00               |
| <b>Leads</b>        | 2#14 A,2#18 JJ Y |
| <b>Proprietary</b>  | False            |
| <b>Created date</b> | 01-01-0001       |

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

**Nameplate**

| NP0727XPSL     |                |                |       |
|----------------|----------------|----------------|-------|
| <b>NO.</b>     |                |                |       |
| <b>SER.</b>    |                |                |       |
| <b>SPEC.</b>   | 34-6519-3865G1 |                |       |
| <b>CAT.NO.</b> | CDPX3436       | <b>T. CODE</b> | T3C   |
| <b>HP</b>      | .75            | <b>ENCL</b>    | XPFC  |
| <b>RPM</b>     | 1750           |                |       |
| <b>FRAME</b>   | 56C            | <b>TYPE</b>    | 3435P |
| <b>ARM V</b>   | 180            | <b>ARM A</b>   | 3.5   |
| <b>FLD V</b>   |                | <b>FLD A</b>   |       |
| <b>INSUL</b>   | F              | <b>AMB.</b>    | 40    |
| <b>DUTY</b>    | CONT           | <b>SUPPLY</b>  | 1.5   |
| <b>BRG/DE</b>  | 6203           | <b>BRG/ODE</b> | 6203  |
| <b>BRUSHES</b> | 2/BP5011CV01   |                |       |
| <b>BLANK</b>   |                |                |       |

**DC Motor Performance Data**

Record # 1431

Typical performance - not guaranteed values

| Winding: 34WG3865-R013 |              | Type: 3435P                   | Enclosure: TEFC        |
|------------------------|--------------|-------------------------------|------------------------|
| Nameplate Data         |              | General Characteristics       |                        |
| Rated Output (HP)      | 0.75         | Armature Resistance<br>@ 25°C | 1.9971 Ω               |
| R.P.M.                 | 1750         |                               |                        |
| Armature Volts         | 180          | Voltage Constant              | 95.09 v/krpm           |
| Armature Amps          | 3.5          |                               |                        |
| Field Volts            |              |                               |                        |
| Field Amps             |              | Armature Inertia              | 13.657 LI <sup>2</sup> |
| 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 |

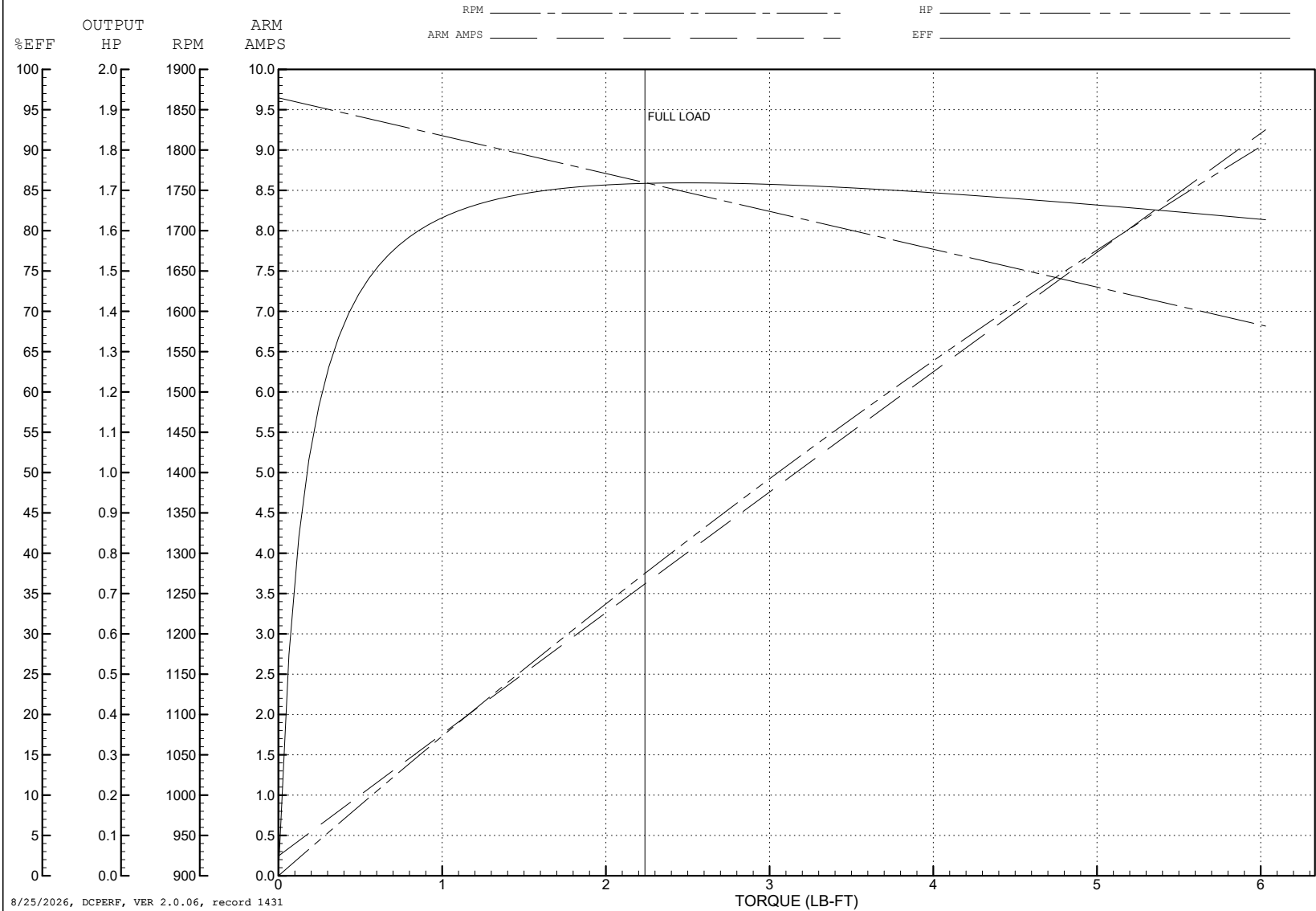
ABB Motors and Mechanical Inc.

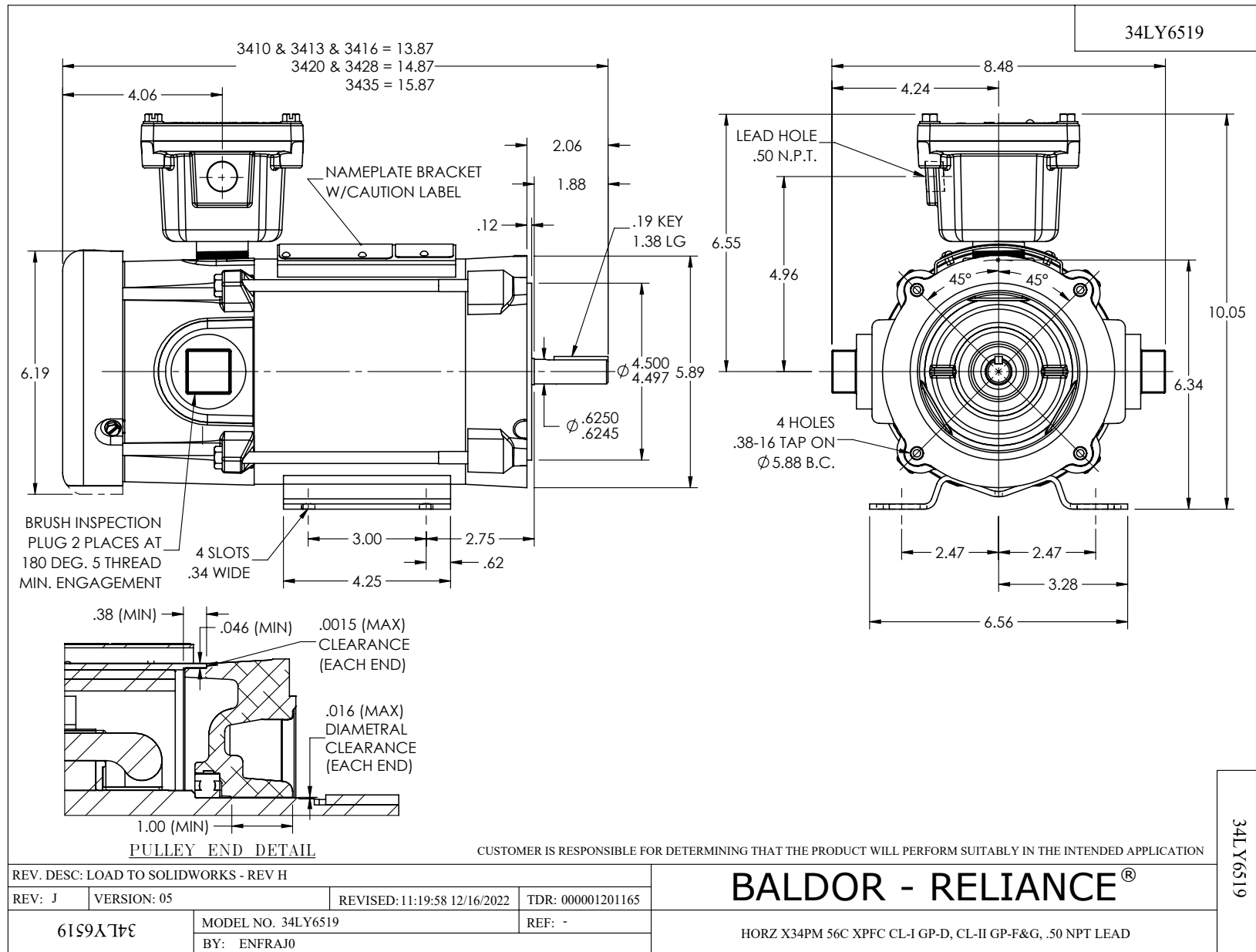
WINDING # 34WG3865

Typical performance - not guaranteed values.

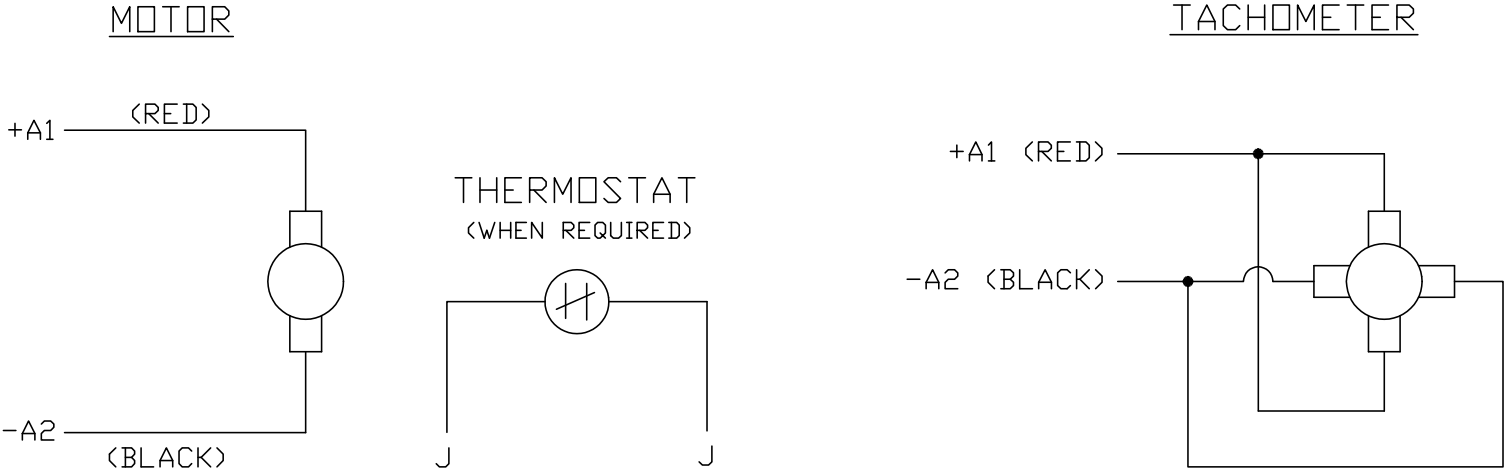
0.75 HP DC 1750 RPM 180 V 3435P

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

REVISED: 07/28/95

FILE: AAA00004503

TDR: 0078737

**BALDOR ELECTRIC Co.**

CD TYPE P DC PERMANENT MAGNET MOTORS AND TACHOMETERS

CD0194