ABB BALDOR RELIANCE

# Customer information packet

## M7005A

.5HP, 3450RPM, 3PH, 60HZ, 56, X3410M, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56 |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 208.0 V @ 60 HZ |
| | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | UL |
| | CSA |
| | UR |
| **Ambient Temperature** | 40 °C |
| **Auxiliary Box** | NO AUXILLARY BOX |
| **Auxiliary Box Lead Termination** | None |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Blower** | None |
| **Current @ Voltage** | 1.100 A @ 460.0 V |
| | 2.200 A @ 230.0 V |
| | 2.400 A @ 208.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 68.0 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |

## Part Detail

| | |
|---|---|
| **Revision** | AG |
| **Type** | AC |
| **Mech. spec.** | 34-5323 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 34WG3302 |
| **Layout** | 34LY5323 |
| **Eff. date** | 05-01-2024 |
| **CD Diagram** | CD0007 |
| **Poles** | 02 |
| **Leads** | 12#18 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 1.1 a |
| **Insulation Class** | B |
| **Inverter Code** | Not Inverter |
| **KVA Code** | L |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 12 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3410M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 13.22 IN |
| **Power Factor** | 63 |
| **Product Family** | Hazardous Location Motor |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS COMPLIANT |
| **Service Factor** | 1.00 |
| **Shaft Diameter** | 0.625 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3450 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |

| | |
|---|---|
| **Thermal Device - Winding** | None |
| **Vibration Sensor Indicator** | No Vibration Sensor |
| **Winding Thermal 1** | Automatic Thermal Overload |
| **Winding Thermal 1 Location** | SB |

**Nameplate**

| NP0016XPSL | | | | | | | |
|---|---|---|---|---|---|---|---|
| **NO.** | | **CC** | | | | | |
| **SER. #** | | | | | | | |
| **SPEC** | 34-5323-3302 | | | | | | |
| **CAT.NO.** | M7005A | | | | | | |
| **H.P.** | .5 | **T. CODE** | T3C | | | | |
| **VOLTS** | 208-230/460 | | | | | | |
| **AMPS** | 2.4-2.2/1.1 | | | | | | |
| **R.P.M.** | 3450 | | | | | | |
| **HZ** | 60 | **PH** | 3 | **CLASS** | B | | |
| **SER.F.** | 1.00 | **DES** | B | **CODE** | L | | |
| **RATING** | 40C AMB-CONT | | | | | | |
| **FRAME** | 56 | | | **NEMA NOM. EFF** | 68 | | |
| | **PF** | 63 | | | | | |
| **BLANK** | | | | | | | |

**AC Induction Motor Performance Data**
Record # 6680
Typical performance - not guaranteed values

| **Winding:** 34WG3302-R002 | **Type:** 3410M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | .5 | **Full Load Torque** | 0.75 LB-FT |
| **Volts** | | 208-230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 2.4-2.2/1.1 | **Breakdown Torque** | 3.4 LB-FT |
| **R.P.M.** | | 3450 | **Pull-up Torque** | 2.7 LB-FT |
| **Hz** | 60 **Phase** | 3 | **Locked-rotor Torque** | 3 LB-FT |
| **NEMA Design Code** | B **KVA Code** | L | **Starting Current** | 6 A |
| **Service Factor (S.F.)** | | 1 | **No-load Current** | 0.9 A |
| **NEMA Nom. Eff.** | 68 **Power Factor** | 63 | **Line-line Res. @ 25ºC** | 35.1 Ω |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 58°C |
| | | | **Locked-rotor Power Factor** | 78 |
| | | | **Rotor inertia** | 0.0093 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 33 | 44 | 56 | 64 | 70 | 77 |
| **Efficiency** | 41.4 | 56.3 | 64 | 67.2 | 68.4 | 68.5 |
| **Speed** | 3563 | 3535 | 3501 | 3466 | 3432 | 3381 |
| **Line amperes** | 0.91 | 0.97 | 1.01 | 1.1 | 1.2 | 1.33 |

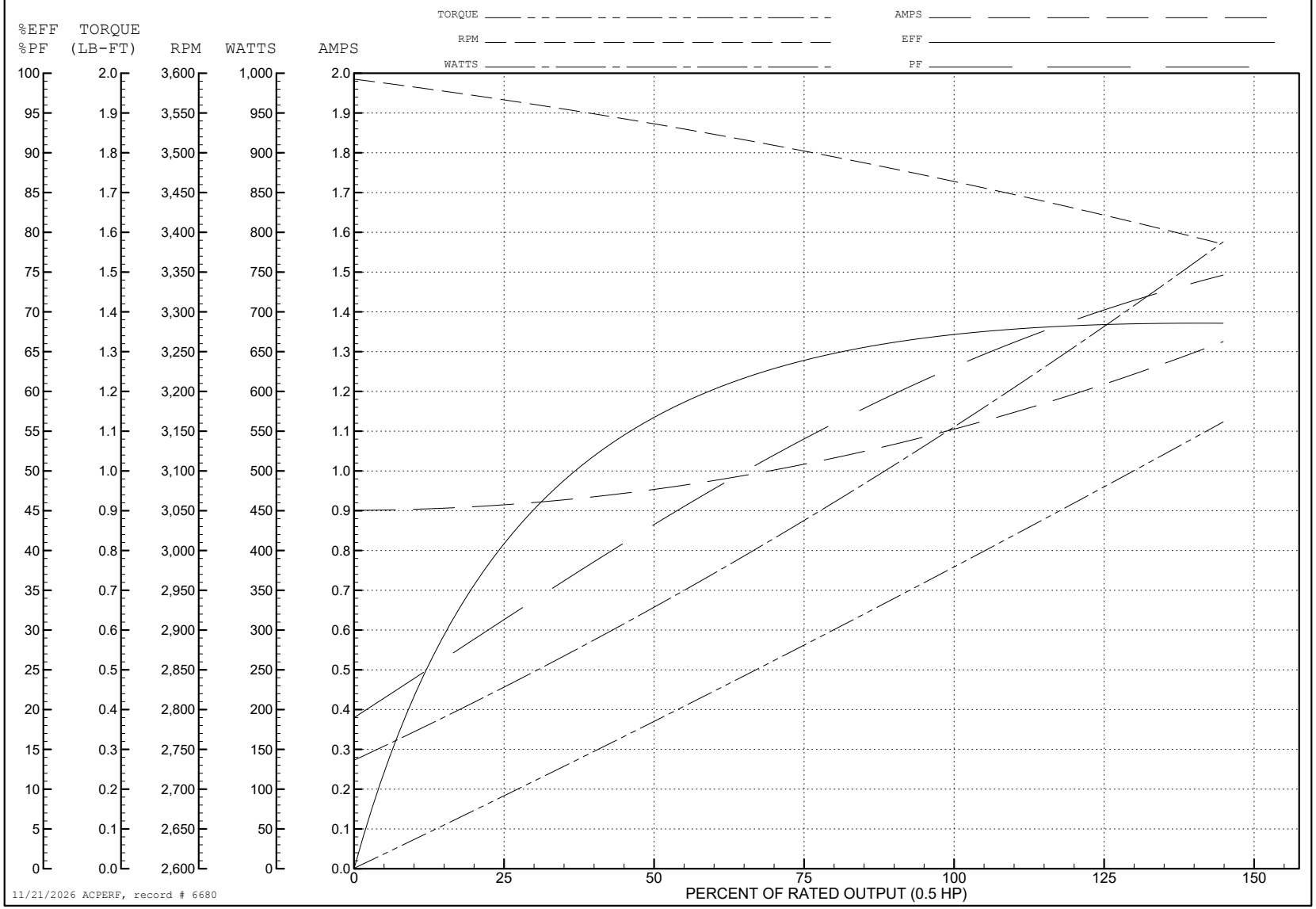
ABB Motors and Mechanical Inc.

WINDING # 34WG3302

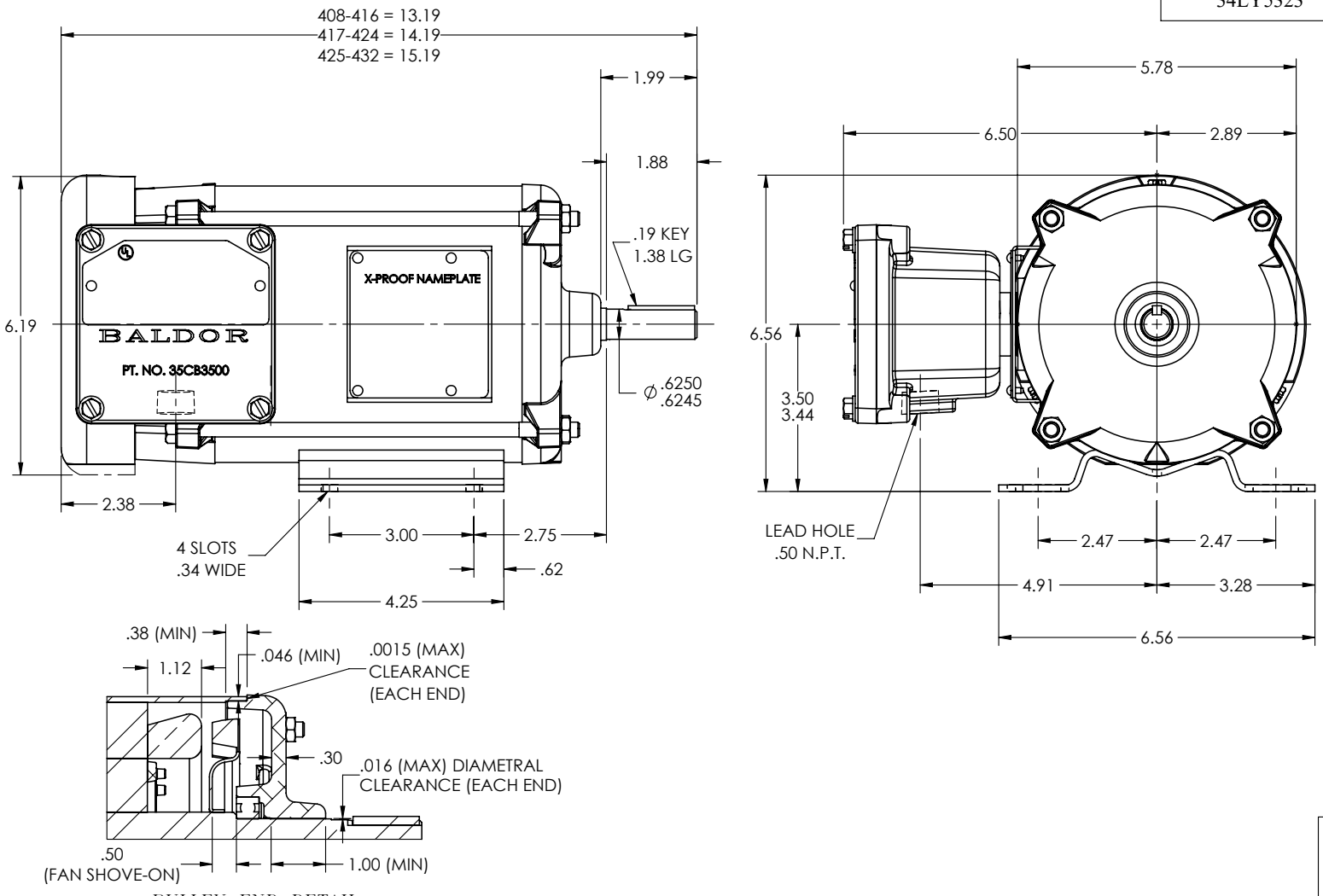
0.5 HP 3 PH 60 HZ 3450 RPM 460 V 3410M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=3.4 PU=2.7 LR=3 LRA=6



34LY5323




PULLEY END DETAIL

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

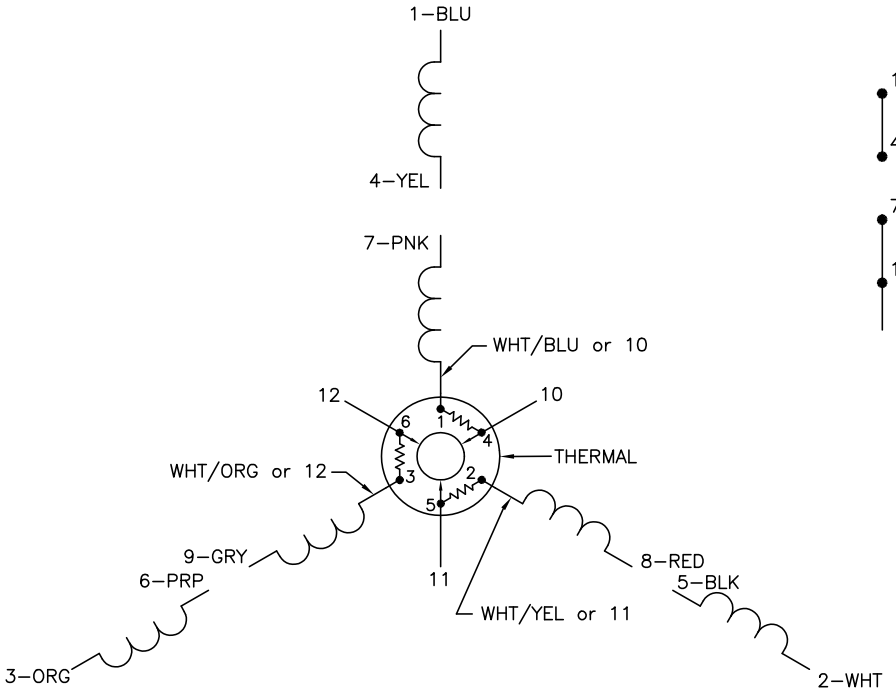
| | | | |
|---|---|---|---|
| REV. DESC: LOAD TO SOLIDWORKS - REV K | | | |
| REV: L | VERSION: 08 | REVISED: 12:27:48 12/15/2022 | TDR: 000001201165 |
| 34LY5323 | MODEL NO. 34LY5323 | | REF: - |
| | BY: ENFRAJ0 | | |

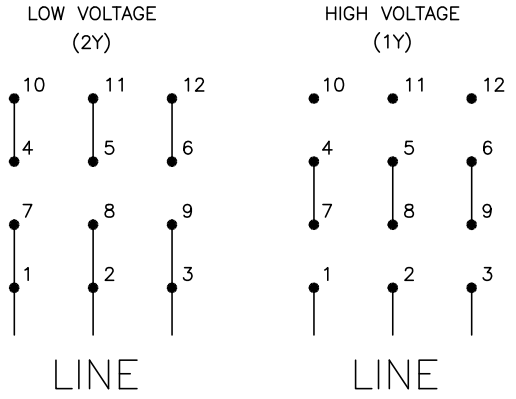
BALDOR - RELIANCE®

HORZ X34M 56 XPFC CL-I GP-D, CL-II GP-F&G, .50 NPT LEAD

34LY5323

CD0007




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: ADDED "CK" PLANT CODE | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: EAH | REVISED: 05/06/99 17:1 | TDR: 0181040 |
| CD0007 | | FILE: AAA00008370 | MDL: – |
| | | MTL: – | 3PH, DV, THERMAL, 12 LEADS |

CD0007