ABB BALDOR RELIANCE

# Customer information packet

## CL5004-I

.5HP, 1725RPM, 1PH, 60HZ, 56C, 3520L, XPFC, F1
Class - CLI GP C,D
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 56C |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP C,D |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Cap Start, Induction Run |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 1 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 208.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| **Agency Approvals** | CSA |
| | UL |
| **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** | 7.400 A @ 115.0 V |
| | 3.700 A @ 230.0 V |
| | 3.500 A @ 208.0 V |
| **Design Code** | N |
| **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 |
| **Front Shaft Indicator** | None |

## Part Detail

| | |
|---|---|
| **Revision** | P |
| **Type** | AC |
| **Mech. spec.** | 35X723 |
| **Base** | |
| **Status** | NLA/A |
| **Elec. spec.** | 35WGN406 |
| **Layout** | 35LYX723 |
| **Eff. date** | 01-18-2023 |
| **CD Diagram** | CD0001 |
| **Poles** | 04 |
| **Leads** | 6#18 |
| **Proprietary** | False |
| **Created date** | 09-17-2012 |

| | |
|---|---|
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 3.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | M |
| **Lifting Lugs** | No Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 6 @ 18 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | 3520L |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 14.31 IN |
| **Power Factor** | 65 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | C-Face |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **Service Factor** | 1.15 |
| **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** | 1725 rpm |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Bearing** | None |
| **Thermal Device - Winding** | Normally Closed Thermostat |
| **Vibration Sensor Indicator** | No Vibration Sensor |

| | |
|---|---|
| **Winding Thermal 1** | None |
| **Winding Thermal 2** | None |

**Nameplate**

| NP0977XPSL | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | | | **CC** | | | |
| **SER.** | | | | | | **TEMP CODE** | T3C | | |
| **SPEC.** | 35X723N406G1 | | | | | | | | |
| **CAT.NO.** | CL5004-I | | | | | | | | |
| **HP** | .5 | | | | | | | | |
| **VOLTS** | 115/208-230 | | | | | | | | |
| **AMPS** | 7.4/3.5-3.7 | | | | | | | | |
| **RPM** | 1725 | | | | **MOTOR WEIGHT** | | 43 | | |
| **HERTZ** | 60 | **PH** | 1 | **CL** | F | **DE BRG** | 6205 | | |
| **SER.F.** | 1.15 | **DES** | N | **CODE** | M | **ODE BRG** | 6203 | | |
| **FRAME** | 56C | **GREASE** | POLYREX EM | | | | | | |
| **RATING** | 40C AMB-CONT | | | | | | | | |
| **NEMA-NOM-EFF** | 68 | **PF** | 65 | | | | | | |
| | NEMA MG-1 PT 5,IP55 | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 39783
Typical performance - not guaranteed values

| **Winding:** 35WGN406-R002 | **Type:** 3520L | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **230 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .5 | **Full Load Torque** | 1.51 LB-FT |
| **Volts** | | | 115/208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.4/3.5-3.7 | **Breakdown Torque** | 4.62 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 3.69 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 5.49 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | M | **Starting Current** | 22.6 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.89 A |
| **NEMA Nom. Eff.** | 68 | **Power Factor** | 65 | **Line-line Res. @ 25ºC** | 4.0781 Ω A Ph<br>2.4038 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 67°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 75°C |

**Load Characteristics 230 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 34 | 46 | 56 | 65 | 71 | 76 | 69 |
| **Efficiency** | 41.6 | 57.1 | 64.6 | 68 | 69 | 69 | 68.6 |
| **Speed** | 1783.2 | 1772 | 1759.8 | 1745.9 | 1730.5 | 1714.5 | 1737 |
| **Line amperes** | 2.95 | 3.09 | 3.35 | 3.69 | 4.1 | 4.61 | 3.94 |

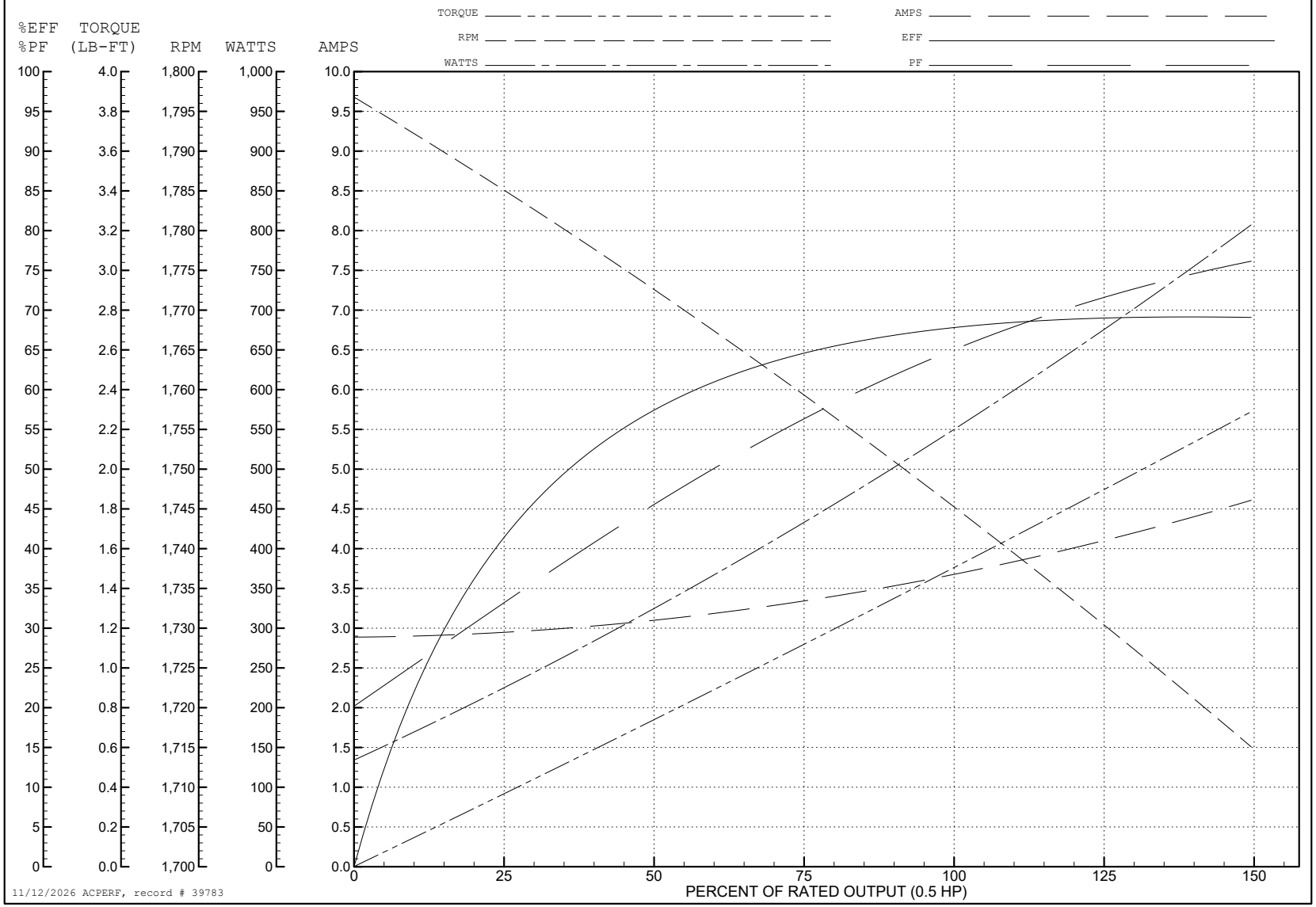
ABB Motors and Mechanical Inc.

WINDING # 35WGN406

0.5 HP 1 PH 60 HZ 1725 RPM 230 V 3520L

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=4.62 PU=3.69 LR=5.49 LRA=22.6




11/12/2026 ACPERF, record # 39783

**AC Induction Motor Performance Data**
Record # 44101
Typical performance - not guaranteed values

| **Winding:** 35WGN406-R002 | **Type:** 3520L | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **115 V, 60 Hz: Low Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | .5 | **Full Load Torque** | 1.51 LB-FT |
| **Volts** | | | 115/208-230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 7.4/3.5-3.7 | **Breakdown Torque** | 4.62 LB-FT |
| **R.P.M.** | | | 1725 | **Pull-up Torque** | 3.69 LB-FT |
| **Hz** | 60 | **Phase** | 1 | **Locked-rotor Torque** | 5.49 LB-FT |
| **NEMA Design Code** | N | **KVA Code** | M | **Starting Current** | 45.2 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 5.78 A |
| **NEMA Nom. Eff.** | 68 | **Power Factor** | 65 | **Line-line Res. @ 25ºC** | 1.06 Ω A Ph<br>2.39 Ω B Ph |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 67°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 73°C |
| | | | | **Rotor inertia** | 0.119 LB-FT2 |

**Load Characteristics 115 V, 60 Hz, 0.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 34 | 46 | 56 | 65 | 72 | 76 | 69 |
| **Efficiency** | 41.5 | 57.1 | 64.8 | 68 | 69.2 | 69 | 68.7 |
| **Speed** | 1783 | 1772 | 1760 | 1746 | 1731 | 1715 | 1737 |
| **Line amperes** | 5.9 | 6.18 | 6.7 | 7.38 | 8.2 | 9.22 | 7.87 |

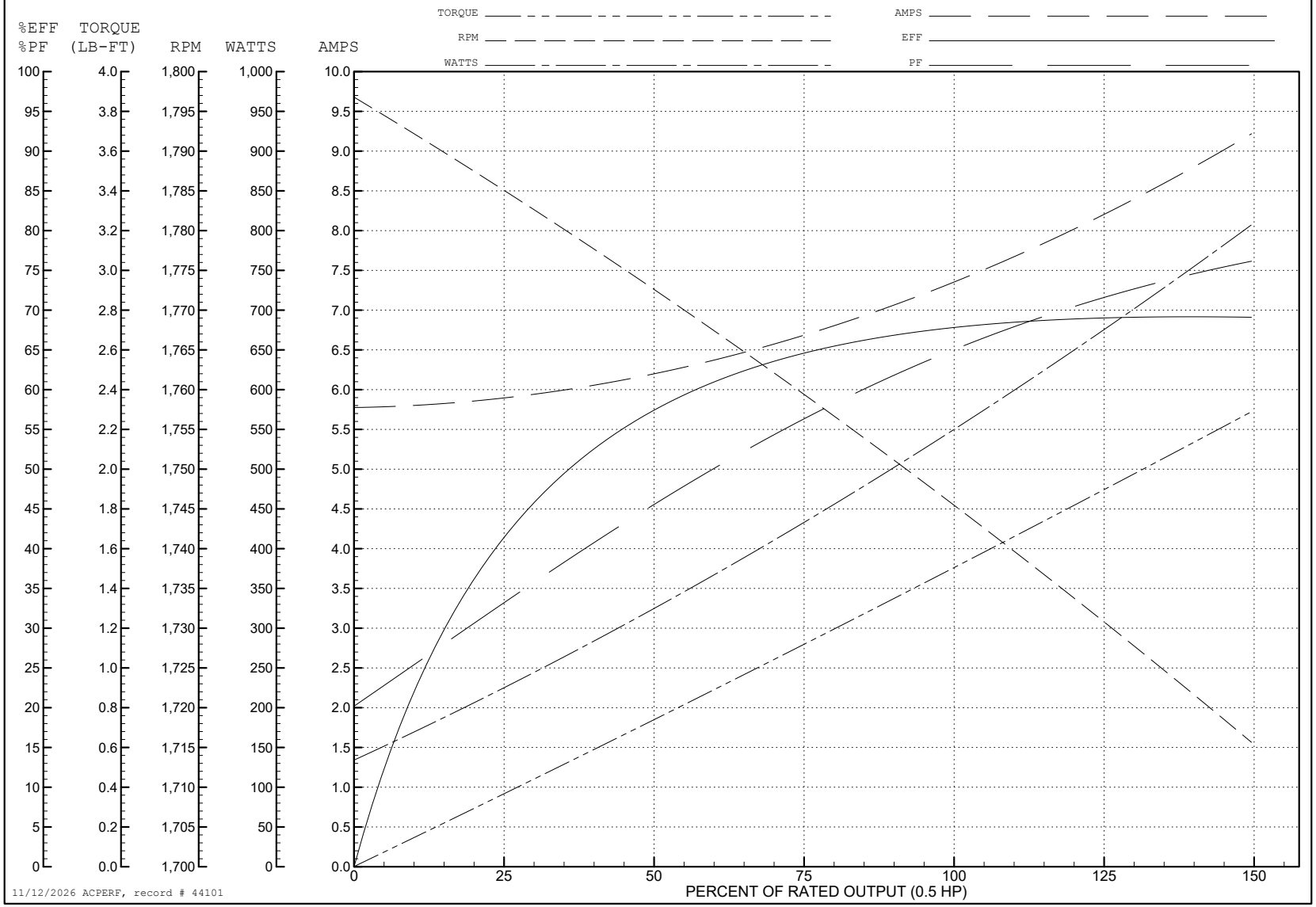
ABB Motors and Mechanical Inc.

WINDING # 35WGN406

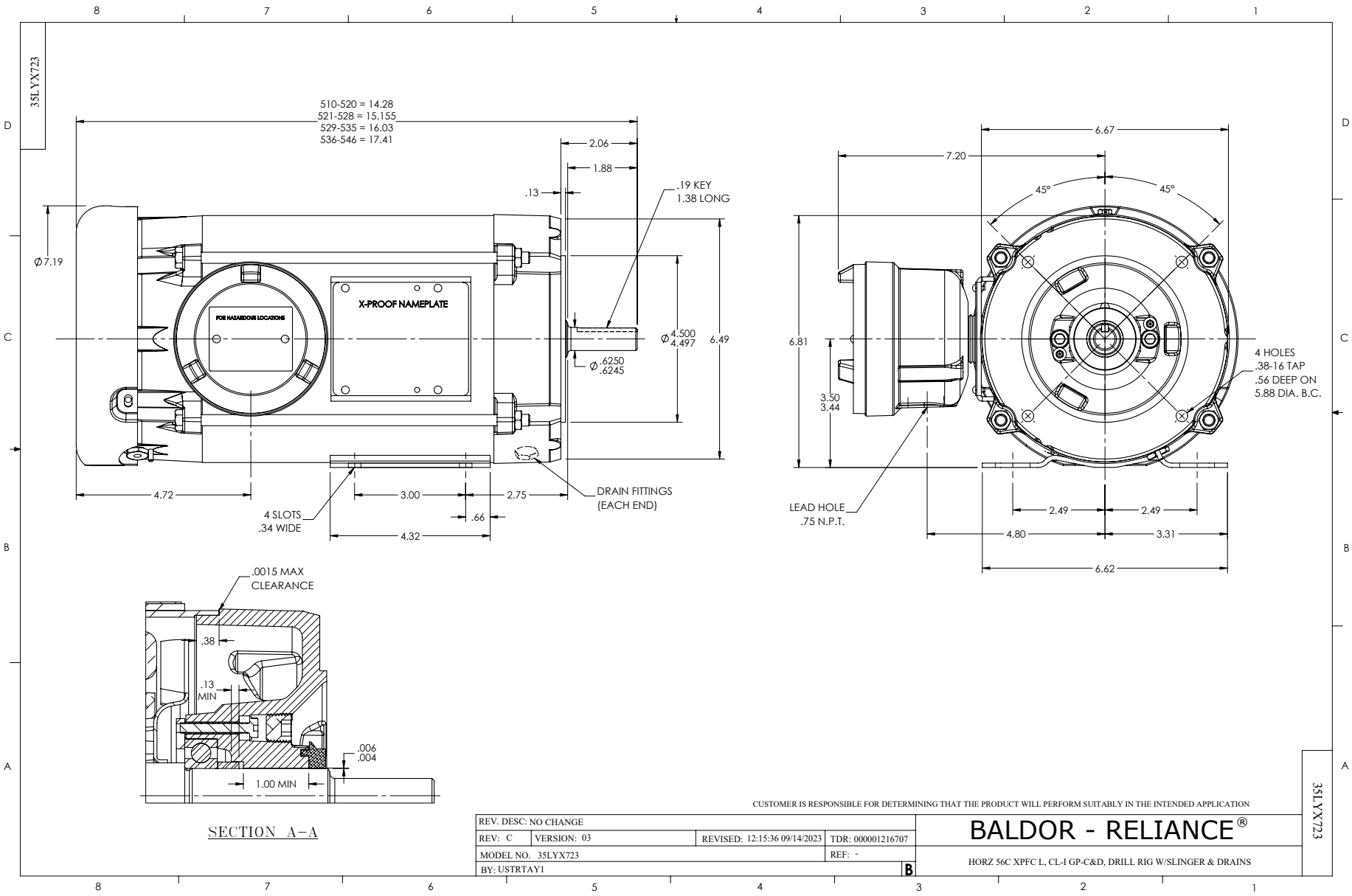
0.5 HP 1 PH 60 HZ 1725 RPM 115 V 3520L

Typical performance - not guaranteed values.

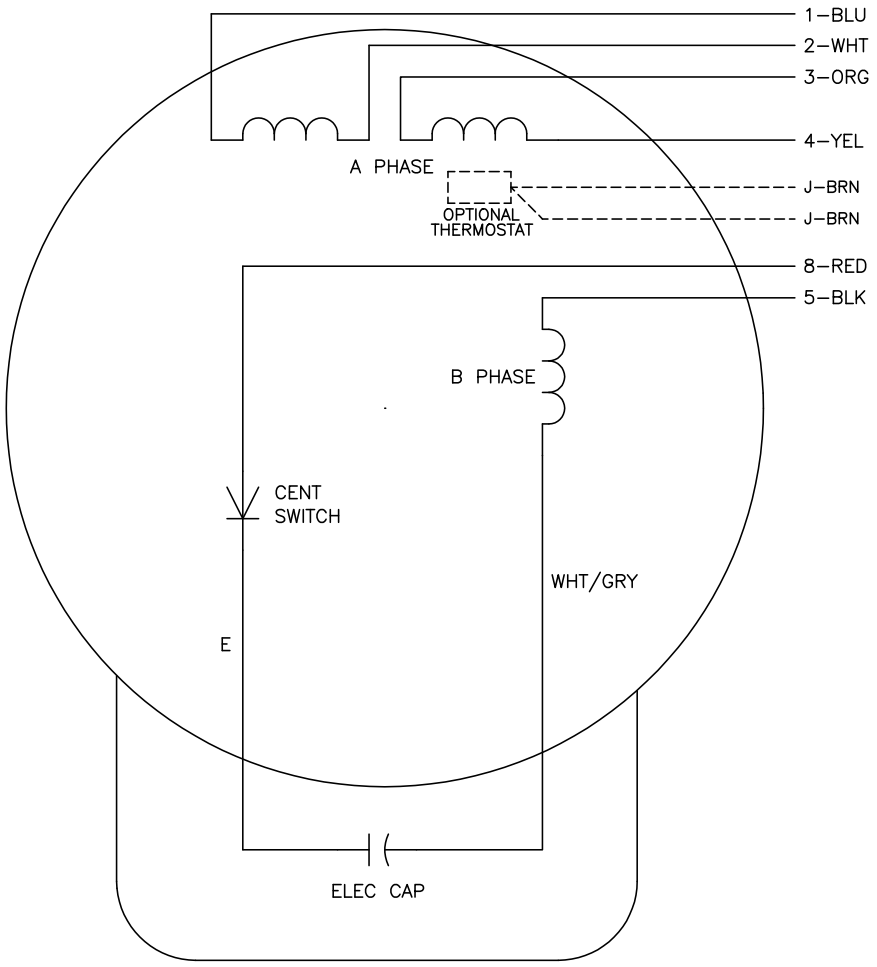
TORQUES(LB-FT): PO=4.62 PU=3.69 LR=5.49 LRA=45.2




11/12/2026 ACPERF, record # 44101


35LYX723
510-520 = 14.28
521-528 = 15.155
529-535 = 16.03
536-546 = 17.41
2.06
1.88
.13
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø 4.500
4.497
6.49
Ø .6250
.6245
4.72
3.00
2.75
.66
4.32
4 SLOTS
.34 WIDE
DRAIN FITTINGS
(EACH END)
6.67
7.20
45°
45°
6.81
3.50
3.44
4 HOLES
.38-16 TAP
.56 DEEP ON
5.88 DIA. B.C.
LEAD HOLE
.75 N.P.T.
2.49
2.49
4.80
3.31
6.62
.0015 MAX
CLEARANCE
.38
.13
MIN
.006
.004
1.00 MIN
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NO CHANGE
REV: C
VERSION: 03
REVISED: 12:15:36 09/14/2023
TDR: 000001216707
MODEL NO. 35LYX723
REF: -
BY: USTRTAY1
B
BALDOR - RELIANCE®
HORZ 56C XPFC L, CL-I GP-C&D, DRILL RIG W/SLINGER & DRAINS
35LYX723

CD0001




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH STD | 1 | 4,5 | 2,3,8 |
| HIGH OPP | 1 | 4,8 | 2,3,5 |
| LOW STD | 1,3,8 | 2,4,5 | – |
| LOW OPP | 1,3,5 | 2,4,8 | – |

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

| | | | |
|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: D | BY: JLP | REVISED: 04/08/99 1:16 | TDR: 0178636 |
| CD0001 | | FILE: AAA00007405 | MDL: – |
| | | MTL: – | TYPE L, DV, REV, 6 LEADS |

CD0001