ABB BALDOR RELIANCE

# Customer information packet

## EM7174T-I-5

10HP, 3490RPM, 3PH, 60HZ, 215T, 0730M, XPFC, F1
Class - CLI GP C,D
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 215T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP C,D |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 10.000 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 3600 RPM @ 60 HZ |
| **Voltage @ Frequency** | 575.0 V @ 60 HZ |
| **Agency Approvals** | UL |
| | CSA |
| | CSA EEV |
| | 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** | 9.300 A @ 575.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 90.2 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Feedback Device** | NO FEEDBACK |
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |

## Part Detail

| | |
|---|---|
| **Revision** | N |
| **Type** | AC |
| **Mech. spec.** | 07J231 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 07WGY278 |
| **Layout** | 07LYJ231 |
| **Eff. date** | 09-25-2026 |
| **CD Diagram** | CD0006 |
| **Poles** | 02 |
| **Leads** | 3#14 |
| **Proprietary** | False |
| **Created date** | 11-25-2013 |

| | |
|---|---|
| **High Voltage Full Load Amps** | 9.3 a |
| **Insulation Class** | F |
| **Inverter Code** | Not Inverter |
| **KVA Code** | G |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | Locked Bearing |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 3 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | X0730M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 2 |
| **Overall Length** | 20.03 IN |
| **Power Factor** | 87 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Sealed Bearing |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS NON-COMPLIANT |
| **Service Factor** | 1.15 |
| **Shaft Diameter** | 1.375 IN |
| **Shaft Extension Location** | Pulley End |
| **Shaft Ground Indicator** | No Shaft Grounding |
| **Shaft Rotation** | Reversible |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed** | 3490 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**

| NP0977XPSLEV | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | | | **CC** | 010A | | | | |
| **SER.** | | | | | | **TEMP CODE** | T3C | | | | |
| **SPEC.** | 07J231Y278G1 | | | | | | | | | | |
| **CAT.NO.** | EM7174T-I-5 | | | | | | | | | | |
| **HP** | 10 | | | | | | | | | | |
| **VOLTS** | 575 | | | | | | | | | | |
| **AMPS** | 9.3 | | | | | | | | | | |
| **RPM** | 3490 | | | | | **MOTOR WEIGHT** | 212 | | | | |
| **HERTZ** | 60 | **PH** | 3 | **CL** | F | **DE BRG** | 6307 | | | | |
| **SER.F.** | 1.15 | **DES** | B | **CODE** | G | **ODE BRG** | 6206 | | | | |
| **FRAME** | 215T | **GREASE** | POLYREX EM | | | | | | | | |
| **RATING** | 40C AMB-CONT 55C AMB AT 1.0 SF | | | | | | | | | | |
| | | | | **NEMA-NOM-EFF** | | 90.2 | **PF** | 87 | | | |
| | NEMA MG-1 PT 5,IP55 | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 37188
Typical performance - not guaranteed values

| **Winding:** 07WGY278-R002 | **Type:** 0730M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **575 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 10 | **Full Load Torque** | 15.1 LB-FT |
| **Volts** | | | 575 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 9.3 | **Breakdown Torque** | 53.9 LB-FT |
| **R.P.M.** | | | 3490 | **Pull-up Torque** | 16.8 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 22.6 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | G | **Starting Current** | 59.9 A |
| **Service Factor (S.F.)** | | | 1.15 | **No-load Current** | 2.68 A |
| **NEMA Nom. Eff.** | 90.2 | **Power Factor** | 87 | **Line-line Res. @ 25ºC** | 1.71 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 64°C |
| **S.F. Amps** | | | | **Temp. Rise @ S.F. Load** | 80°C |
| | | | | **Locked-rotor Power Factor** | 33 |
| | | | | **Rotor inertia** | 0.273 LB-FT2 |

**Load Characteristics 575 V, 60 Hz, 10 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** | **S.F.** |
|---|---|---|---|---|---|---|---|
| **Power Factor** | 63 | 82 | 89 | 91 | 91 | 91 | 90 |
| **Efficiency** | 88.4 | 91.7 | 91.4 | 90.5 | 89.2 | 88.1 | 90.1 |
| **Speed** | 3575 | 3549 | 3522 | 3493 | 3459 | 3421 | 3476 |
| **Line amperes** | 3.45 | 5.1 | 7.05 | 9.18 | 11.6 | 14.2 | 10.7 |

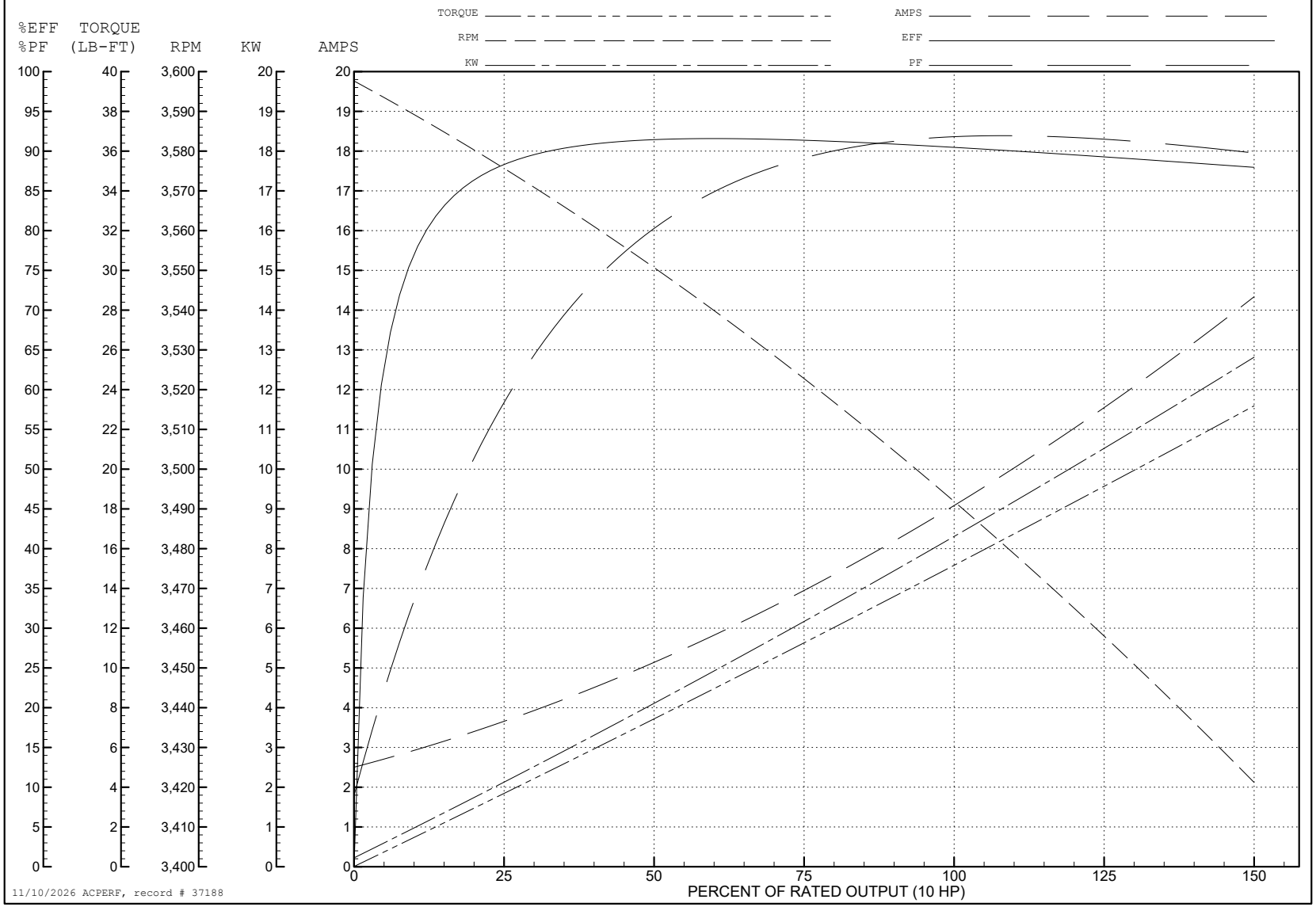
ABB Motors and Mechanical Inc.

WINDING # 07WGY278

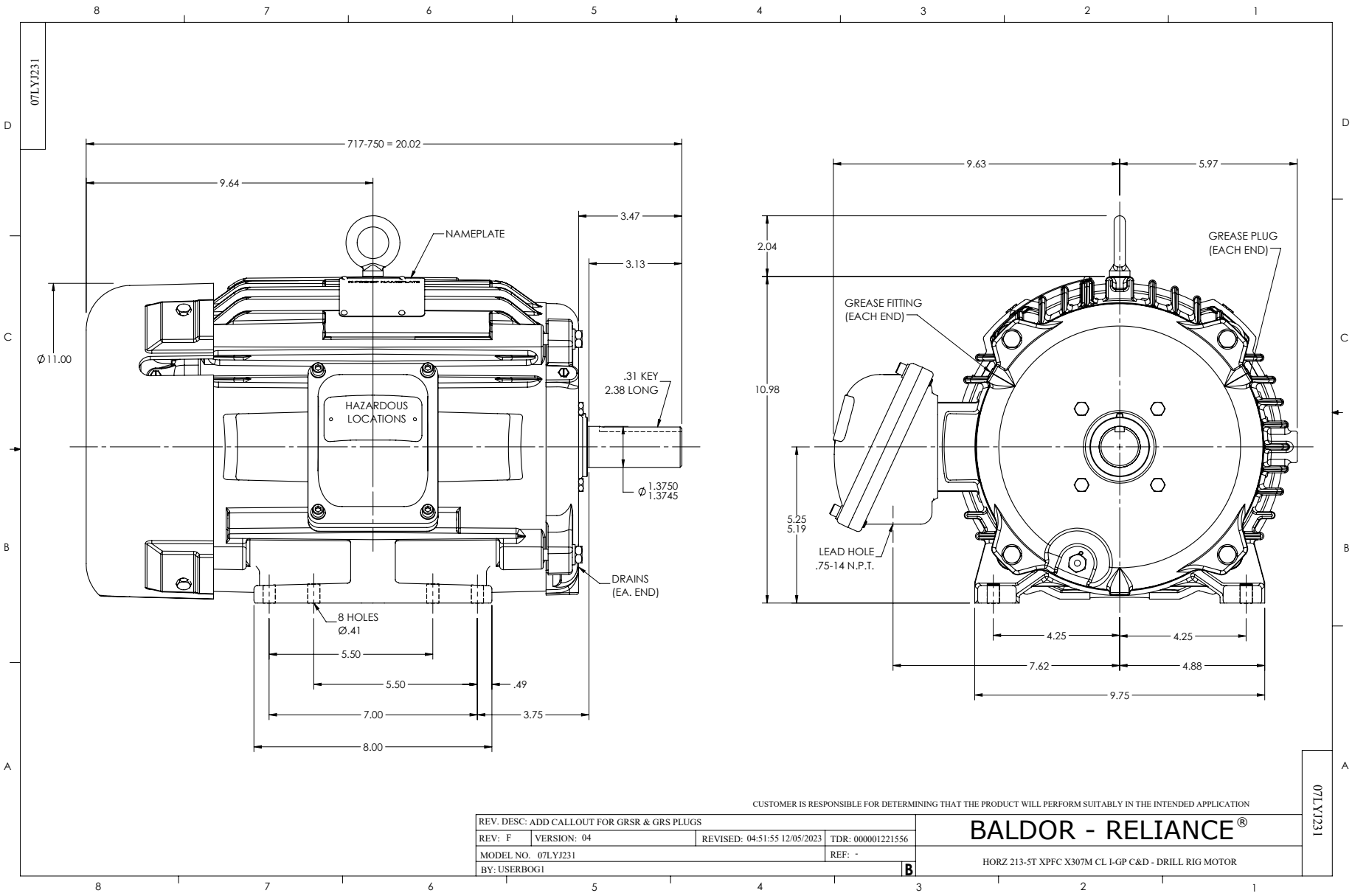
10 HP 3 PH 60 HZ 3490 RPM 575 V 0730M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=53.9 PU=16.8 LR=22.6 LRA=59.9

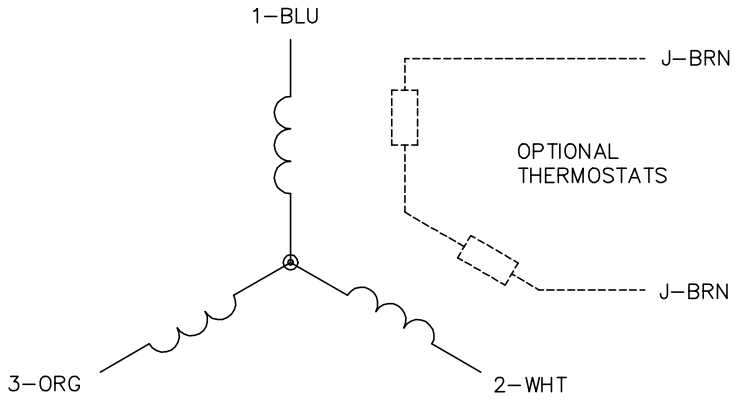


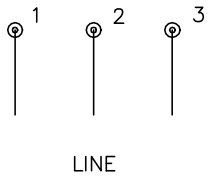

11/10/2026 ACPERF, record # 37188


07LYJ231
717-750 = 20.02
9.64
3.47
3.13
NAMEPLATE
Ø11.00
HAZARDOUS LOCATIONS
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
DRAINS
(EA. END)
8 HOLES
Ø.41
5.50
5.50
.49
7.00
3.75
8.00
9.63
5.97
2.04
GREASE PLUG
(EACH END)
GREASE FITTING
(EACH END)
10.98
5.25
5.19
LEAD HOLE
.75-14 N.P.T.
4.25
4.25
7.62
4.88
9.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD CALLOUT FOR GRSR & GRS PLUGS
REV: F
VERSION: 04
REVISED: 04:51:55 12/05/2023
TDR: 000001221556
MODEL NO. 07LYJ231
REF: -
BY: USERBOG1
B
BALDOR - RELIANCE®
HORZ 213-5T XPFC X307M CL I-GP C&D - DRILL RIG MOTOR
07LYJ231

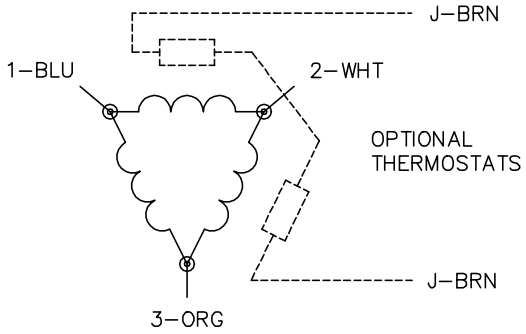
CD0006

TYPICAL WYE–CONNECTED MOTOR




TYPICAL DELTA–CONNECTED MOTOR




NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

| | | |
|---|---|---|
| REV. DESC: ADD CLASS CONN00000007 | | |
| REV. LTR: E | VERSION: 01 | TDR: 000001099922 |
| FILE: \AAA\00005\141 | REVISED: 10:24:49 02/19/2019 | BY: ENBRIR0 |
| MTL: – | | |

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1