ABB BALDOR RELIANCE

# Customer information packet

## IDXM7547T-C

7.5HP, 1765RPM, 3PH, 60HZ, 213T, 0740M, XPFC, F
Class - CLI GP C,D; CLII GP F,G
Division - Division I

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## Specifications

| | |
|---|---|
| **Enclosure** | XPFC |
| **Frame** | 213T |
| **Frame Material** | Iron |
| **Frequency** | 60.00 Hz |
| **Haz Area Class and Group** | CLI GP C,D; CLII GP F,G |
| **Haz Area Division** | Division I |
| **Motor Letter Type** | Three Phase |
| **Output @ Frequency** | 7.500 HP @ 60 HZ |
| **Phase** | 3 |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 460.0 V @ 60 HZ |
| **Agency Approvals** | 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 |
| **Constant Torque Speed Range** | 15 |
| **Current @ Voltage** | 9.500 A @ 460.0 V |
| | 20.200 A @ 208.0 V |
| | 19.000 A @ 230.0 V |
| **Design Code** | B |
| **Drip Cover** | No Drip Cover |
| **Duty Rating** | CONT |
| **Efficiency @ 100% Load** | 91.7 % |
| **Electrically Isolated Bearing** | Not Electrically Isolated |
| **Enclosure Modification** | Severe Duty Features |
| **Feedback Device** | NO FEEDBACK |

## Part Detail

| | |
|---|---|
| **Revision** | J |
| **Type** | AC |
| **Mech. spec.** | 07J063 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | 07WGY818 |
| **Layout** | 07LYJ063 |
| **Eff. date** | 03-08-2021 |
| **CD Diagram** | CD0005 |
| **Poles** | 04 |
| **Leads** | 9#14 |
| **Proprietary** | False |
| **Created date** | 11-03-2016 |

| | |
|---|---|
| **Front Face Code** | Standard |
| **Front Shaft Indicator** | None |
| **Haz Area Temp Code** | T3C |
| **Heater Indicator** | No Heater |
| **High Voltage Full Load Amps** | 9.5 a |
| **Insulation Class** | F |
| **Inverter Code** | Inverter Duty |
| **KVA Code** | H |
| **Lifting Lugs** | Standard Lifting Lugs |
| **Locked Bearing Indicator** | No Locked Bearing |
| **Max Speed** | 2700 rpm |
| **Motor Lead Exit** | Ko Box |
| **Motor Lead Quantity/Wire Size** | 9 @ 14 AWG |
| **Motor Lead Termination** | Flying Leads |
| **Motor Standards** | NEMA |
| **Motor Type** | X0740M |
| **Mounting Arrangement** | F1 |
| **Number of Poles** | 4 |
| **Overall Length** | 19.91 IN |
| **Power Factor** | 81 |
| **Product Family** | General Purpose |
| **Pulley End Bearing Type** | Ball |
| **Pulley Face Code** | Standard |
| **Pulley Shaft Indicator** | Standard |
| **Rodent Screen** | None |
| **RoHS Status** | ROHS NON-COMPLIANT |
| **Service Factor** | 1.00 |
| **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** | 1765 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**

**NP0681XPSLEV**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **NO.** | | | | | **CC** | 010A | | | | | |
| **S/N** | | | | | **TEMP CODE** | T3C | | | | | |
| **SPEC.** | 07J063Y818G1 | | | | **INV.TYPE** | PWM | | | | | |
| **CAT.NO.** | | | | | **C HP FR** | 60 | **C HP TO** | 90 | | | |
| **HP** | 7.5 | | | | **CT HZ FROM** | 15 | | | **CT HZ TO** | 60 | |
| **VOLTS** | 230/460 | | | | **VT HZ FROM** | 6 | | | **VT HZ TO** | 60 | |
| **AMPS** | 19/9.5 | | | **MAG CUR** | 7.2/3.9 | | | | | | |
| **RPM** | 1765 | | | **MX RPM** | 2700 | | | | | | |
| **HZ** | 60 | **PH** | 3 | **CL** | F | **NOM.EFF.** | 91.7 | | | | |
| **SER.F.** | 1.00 | **DES** | B | **SL HZ** | 1.16 | **WK2** | 0.98 | | | | |
| **FRAME** | 213T | **RATING** | 40C AMB-CONT | | | | | | | | |
| | 1.15 SF SINE WAVE | | | | | | | | | | |

**AC Induction Motor Performance Data**
Record # 60176
Typical performance - not guaranteed values

| **Winding:** 07WGY818-R019 | **Type:** 0740M | **Enclosure:** XPFC |
|---|---|---|

| **Nameplate Data** | | | | **460 V, 60 Hz: High Voltage Connection** | |
|---|---|---|---|---|---|
| **Rated Output (HP)** | | | 7.5 | **Full Load Torque** | 22.39 LB-FT |
| **Volts** | | | 230/460 | **Start Configuration** | direct on line |
| **Full Load Amps** | | | 19/9.5 | **Breakdown Torque** | 65.7 LB-FT |
| **R.P.M.** | | | 1765 | **Pull-up Torque** | 32.5 LB-FT |
| **Hz** | 60 | **Phase** | 3 | **Locked-rotor Torque** | 41.9 LB-FT |
| **NEMA Design Code** | B | **KVA Code** | H | **Starting Current** | 64.6 A |
| **Service Factor (S.F.)** | | | 1 | **No-load Current** | 3.67 A |
| **NEMA Nom. Eff.** | 91.7 | **Power Factor** | 81 | **Line-line Res. @ 25ºC** | 1.47 Ω |
| **Rating - Duty** | | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | 57°C |
| | | | | **Locked-rotor Power Factor** | 36.2 |
| | | | | **Rotor inertia** | 0.984 LB-FT2 |

**Load Characteristics 460 V, 60 Hz, 7.5 HP**

| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 47 | 69 | 78 | 83 | 84 | 85 |
| **Efficiency** | 88.8 | 92 | 92.2 | 91.7 | 90.4 | 89.1 |
| **Speed** | 1791 | 1783 | 1775 | 1765 | 1755 | 1743 |
| **Line amperes** | 4.29 | 5.61 | 7.32 | 9.29 | 11.6 | 13.9 |

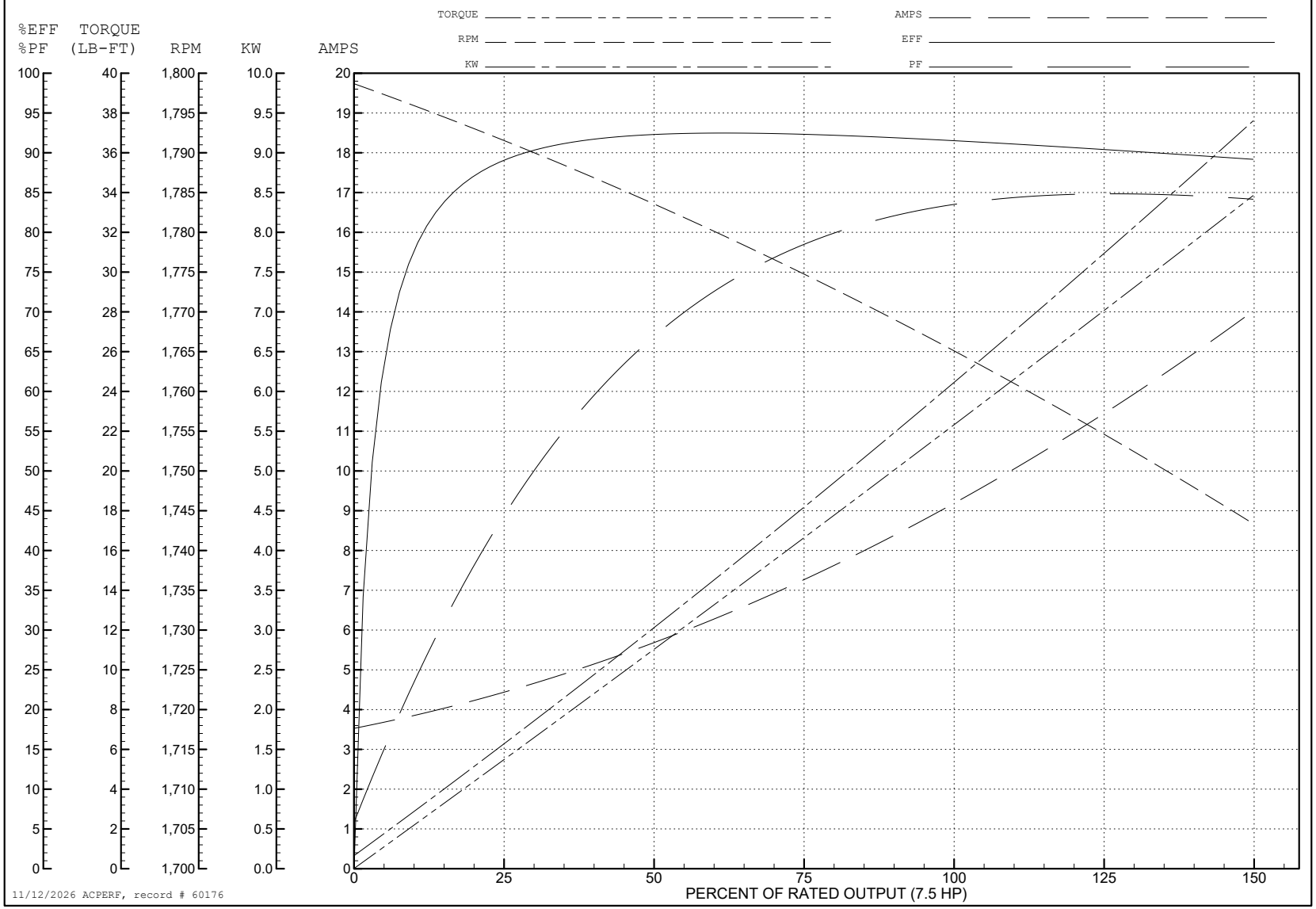
ABB Motors and Mechanical Inc.

WINDING # 07WGY818

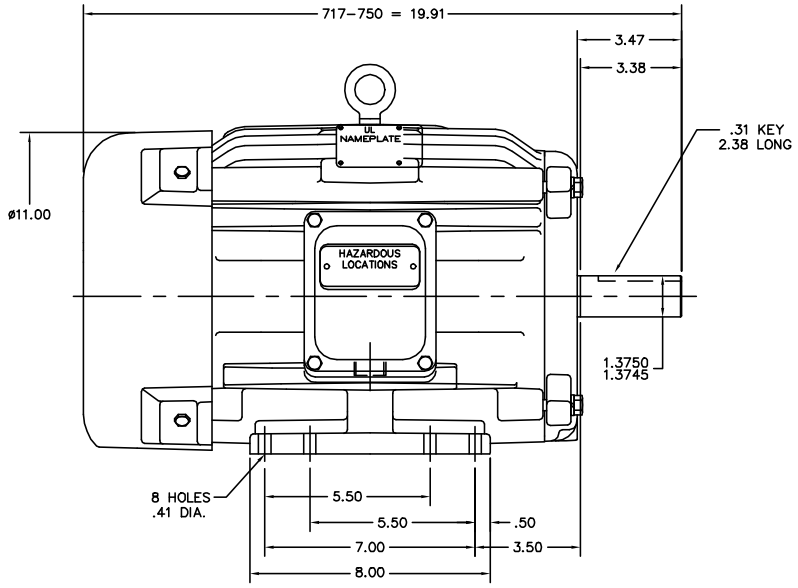
7.5 HP 3 PH 60 HZ 1765 RPM 460 V 0740M

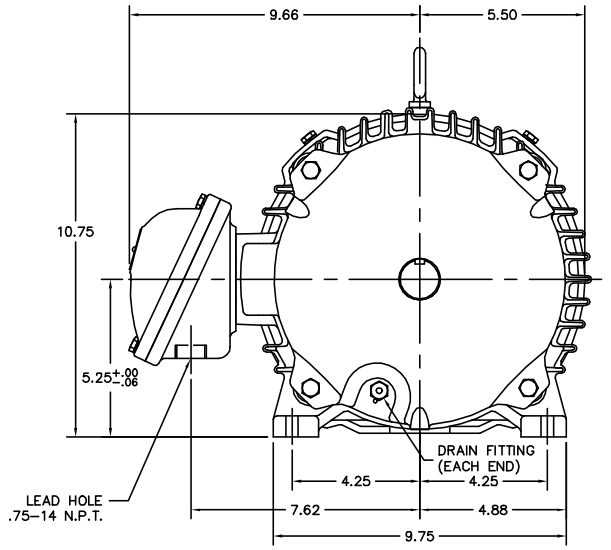
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=65.7 PU=32.5 LR=41.9 LRA=64.6



07LYJ063




CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

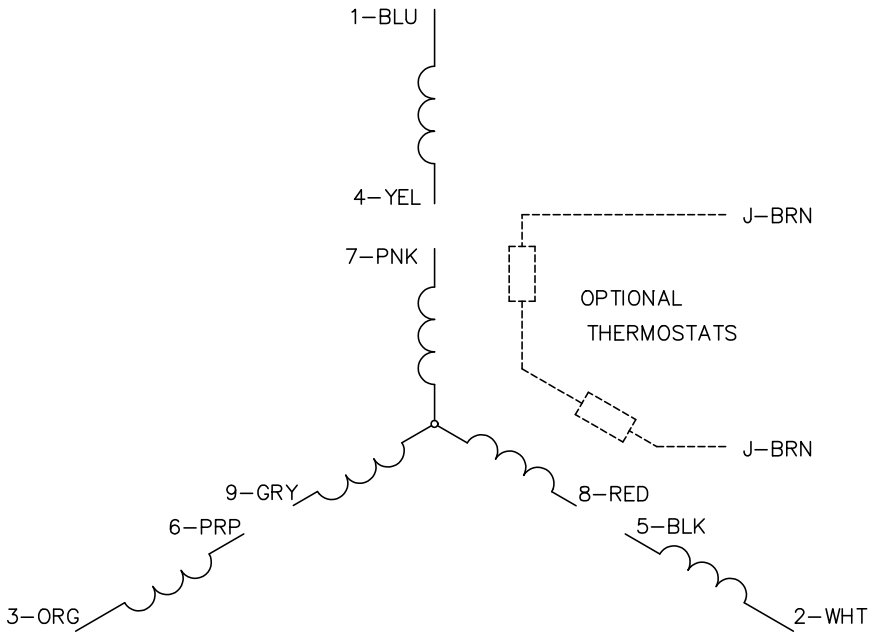
| | | | |
|---|---|---|---|
| REV. DESC: CHG HW4501A02 TO HW4506A02 & HW3022E05 | | | |
| REV. LTR: A | BY: JF | REVISED: 17:03:21 10/30/2003 | TDR: 315895 |
| FILE: AAA00067844 | | | REF: 07LYJ063 |
| MTL: – | | | |

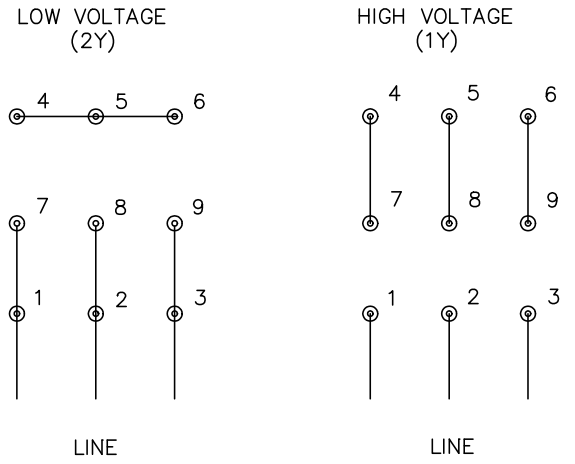
BALDOR ELECTRIC Co.

HORZ 213–5T XPFC X307M CL I–GP C&D–CL II–GP F & G W/ DRAINS

07LYJ063

CD0005




NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

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|---|---|---|---|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | BALDOR ELECTRIC Co. |
| REV. LTR: E | BY: JLP | REVISED: 01/19/99 10:15 | TDR: 0171435 |
| CD0005 | | FILE: AAA00005140 | MDL: – |
| | | MTL: – | 3PH, DV, 9 LEADS |