ABB BALDOR RELIANCE

# Customer information packet

7306

.5HP, 1800RPM, 1PH, 60HZ, 3420C, GRND

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11/19/2026 6:00:17 AM

## Specifications

| | |
|---|---|
| **Enclosure** | GRND |
| **Frame Material** | Steel |
| **Frequency** | 60.00 Hz |
| | 60.00 Hz |
| **Motor Letter Type** | Oil Capacitor Start and Run |
| **Nameplate Output** | .5 |
| **Number of Poles** | 4 |
| | 4 |
| **Output @ Frequency** | .500 HP @ 60 HZ |
| **Phase** | 1 |
| | 1 |
| **Product Style** | GRINDER |
| **Speed** | 1800 rpm |
| | 1800 rpm |
| **Synchronous Speed @ Frequency** | 1800 RPM @ 60 HZ |
| **Voltage** | 115 V |
| | 230 V |
| **Voltage @ Frequency** | 230.0 V @ 60 HZ |
| | 115.0 V @ 60 HZ |
| **Agency Approvals** | UR |
| **Ambient Temperature** | 40 °C |
| **Base Indicator** | Rigid |
| **Bearing Grease Type** | Polyrex EM (-20F +300F) |
| **Current @ Voltage** | 1.900 A @ 230.0 V |
| | 3.800 A @ 115.0 V |
| **Duty Rating** | CONT |
| **Feedback Device** | NO FEEDBACK |
| **Heater Indicator** | No Heater |
| **Insulation Class** | B |
| **KVA Code** | - |
| **Motor Lead Quantity/Wire Size** | 4 @ 18 AWG |
| **Motor Standards** | Other |

## Part Detail

| | |
|---|---|
| **Revision** | AU |
| **Type** | AC |
| **Mech. spec.** | G7-306 |
| **Base** | |
| **Status** | PRD/A |
| **Elec. spec.** | G7WG0385 |
| **Layout** | G7LY0306 |
| **Eff. date** | 06-23-2023 |
| **CD Diagram** | CD0121 |
| **Poles** | 04 |
| **Leads** | 4#18 |
| **Proprietary** | False |
| **Created date** | 01-01-0001 |

| | |
|---|---|
| **Motor Type** | 3420C |
| **Mounting Arrangement** | F1 |
| **Overall Length** | 20.89 IN |
| **Product Family** | Grinder |
| **Service Factor** | 1.00 |
| **Shaft Extension Location** | Double Shaft |
| **Shaft Rotation** | Fixed Opposite Standard |
| **Shaft Slinger Indicator** | No Slinger |
| **Speed Code** | Single Speed |
| **Starting Method** | Direct on line |
| **Thermal Device - Winding** | None |

**Nameplate**

| NP3118 | | | |
|---|---|---|---|
| **CAT.NO.** | 7306 | | |
| **HP** | .5 | **VOLTS** | 115/230 |
| **PHASE** | 1 | **AMPS** | 3.8/1.9 |
| **HZ** | 60 | **RPM** | 1800 |
| **SER.NO** | | | |
| **SPEC.** | G7-306-385 | | |

**Accessories**

| Part number | Description | Multiplier |
|---|---|---|
| GA16E | PEDESTAL LIGHT INDUSTRIAL,STEEL | A8 |
| GA16 | PEDESTAL INDUSTRIAL, CAST IRON 6" - 10" | A8 |
| GA14 | PEDESTAL FABRICATED STEEL W/SHELVES | A8 |
| GA9 | PAIR LIGHTED EYESHIELDS | A8 |
| GA9-1 | SINGLE LIGHTED EYESHIELD | A8 |
| GA9S | PAIR EYESHIELDS W/ ON-OFF SWITCH | A8 |
| GA11 | PAIR EYESHIELDS | A8 |
| GA24 | WATER POT | A8 |
| B73 | 7" 36 GRIT GRINDING WHEEL | A8 |
| B74 | 7" 60 GRIT GRINDING WHEEL | A8 |
| BQ1-015-CC | 1PH Brake, NEMA 1,110-125 VAC, 50/60Hz | P1 |
| BQ1-015-CP | 1PH Brake, Panel 110-125 VAC, 50/60 Hz | |
| DC7 | DUST CONTROL UNIT | A8 |

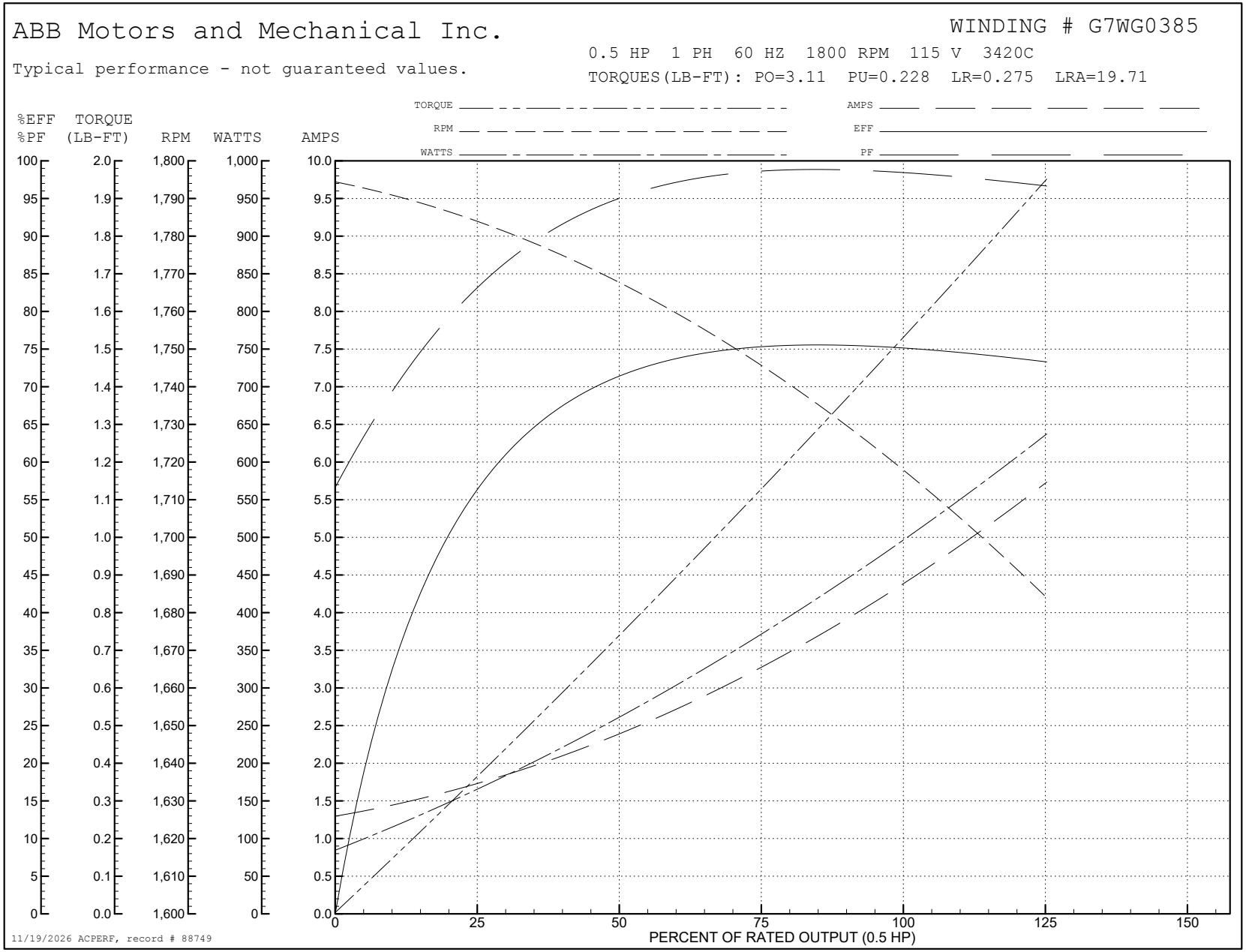
**AC Induction Motor Performance Data**
Record # 88749
Typical performance - not guaranteed values

| **Winding:** G7WG0385-R001 | **Type:** 3420C | **Enclosure:** TENV |
|---|---|---|

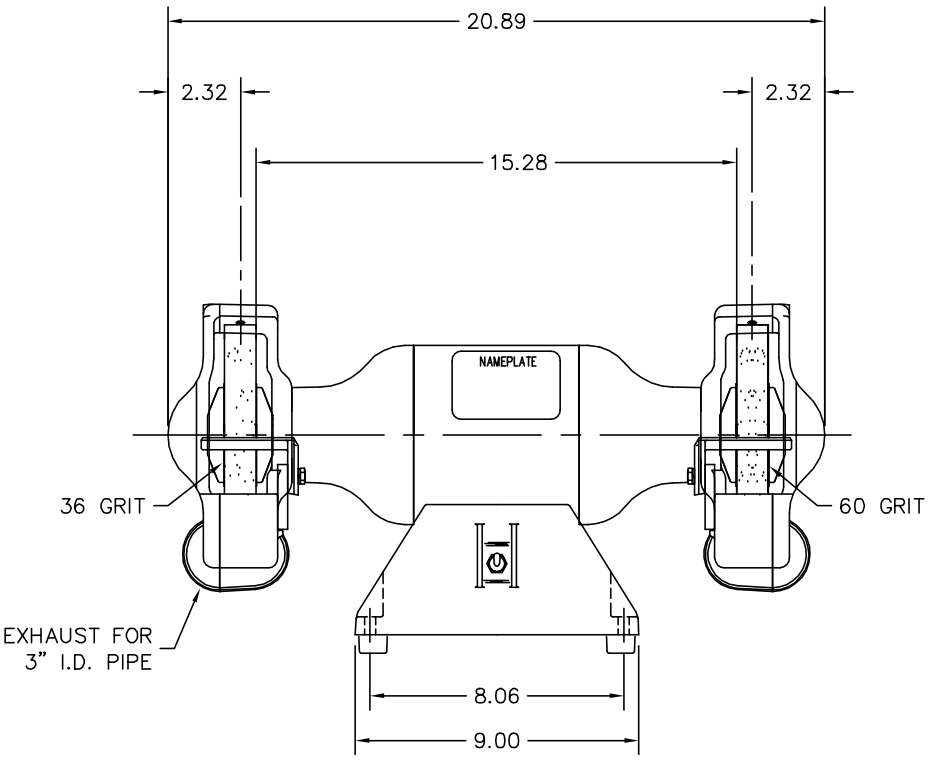
| **Nameplate Data** | | | **115 V, 60 Hz: Single Voltage Motor** | |
|---|---|---|---|---|
| **Rated Output (HP)** | | .5 | **Full Load Torque** | 1.53 LB-FT |
| **Volts** | | 115/230 | **Start Configuration** | direct on line |
| **Full Load Amps** | | 3.8/1.9 | **Breakdown Torque** | 3.11 LB-FT |
| **R.P.M.** | | 1800 | **Pull-up Torque** | 0.228 LB-FT |
| **Hz** | 60 **Phase** | 1 | **Locked-rotor Torque** | 0.275 LB-FT |
| **NEMA Design Code** | - **KVA Code** | - | **Starting Current** | 19.71 A |
| **Service Factor (S.F.)** | | 1 | **No-load Current** | 1.2 A |
| **NEMA Nom. Eff.** | 0 **Power Factor** | 0 | **Line-line Res. @ 25ºC** | 2.01 Ω A Ph<br>22.2 Ω B Ph |
| **Rating - Duty** | | 40C AMB-CONT | **Temp. Rise @ Rated Load** | |
| | | | **Locked-rotor Power Factor** | 74.5 |
| | | | **Rotor inertia** | 0.0472 lb-ft² |

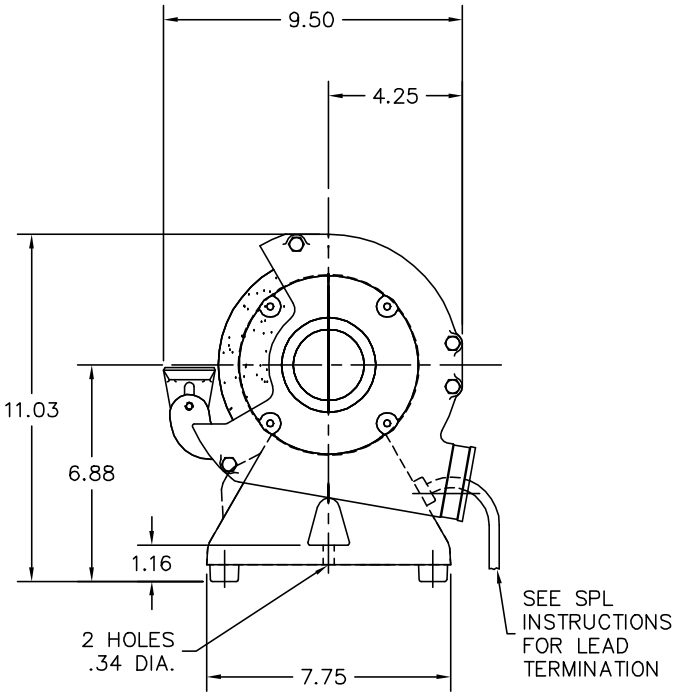
**Load Characteristics 115 V, 60 Hz, 0.5 HP**

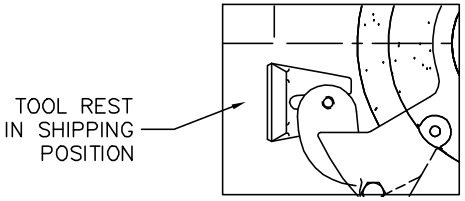
| **% of Rated Load** | **25** | **50** | **75** | **100** | **125** | **150** |
|---|---|---|---|---|---|---|
| **Power Factor** | 83 | 91 | 94 | 95 | 95 | 95 |
| **Efficiency** | 54.9 | 69.7 | 75.3 | 76.7 | 75.1 | 72 |
| **Speed** | 1781 | 1765 | 1746 | 1722 | 1702 | 1678 |
| **Line amperes** | 1.78 | 2.56 | 3.45 | 3.8 | 5.26 | 5.96 |


ABB Motors and Mechanical Inc.
WINDING # G7WG0385
Typical performance - not guaranteed values.
0.5 HP 1 PH 60 HZ 1800 RPM 115 V 3420C
TORQUES(LB-FT): PO=3.11 PU=0.228 LR=0.275 LRA=19.71
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/19/2026 ACPERF, record # 88749

G7LY0306



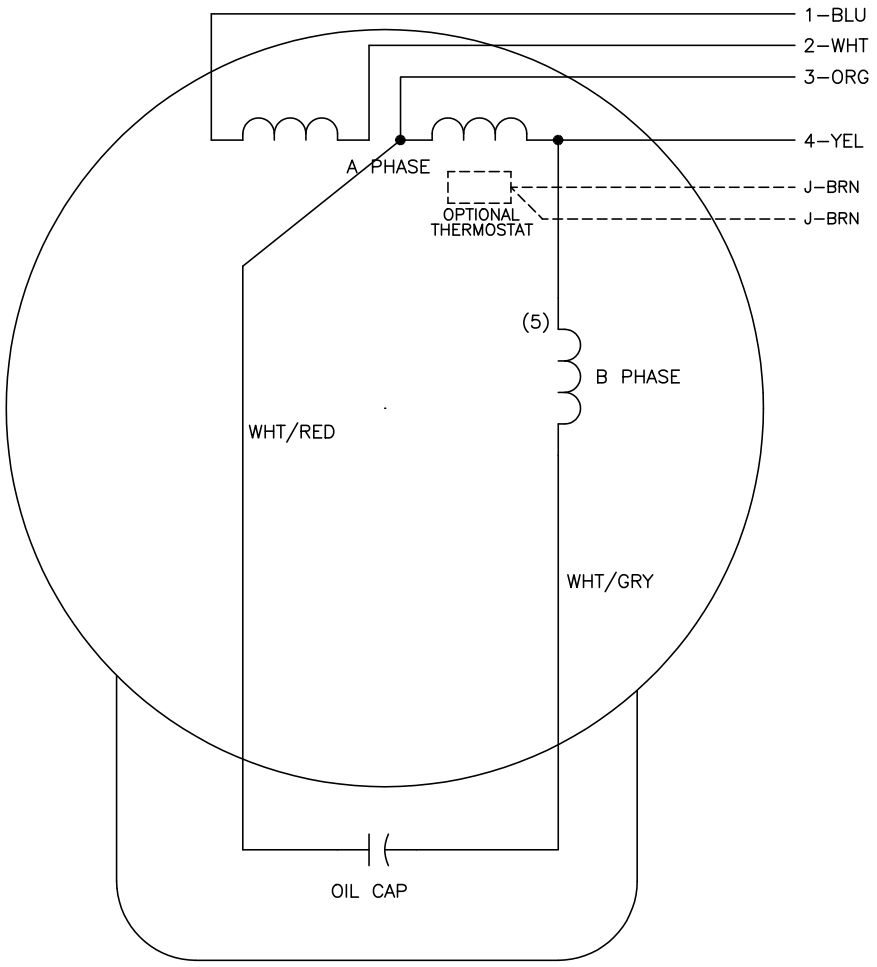




CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

| | | | |
|---|---|---|---|
| REV. DESC: CHG TO SHOW TO PACK THE SPARK BREAKERS AND SHIELDS | | | BALDOR |
| REV. LTR: Y | VERSION: 03 | TDR: 000000484468 | |
| FILE: \AAA\00102\175 | | REVISED: 10:55:58 05/31/2011 | STANDARD 7" DELUXE GRINDER TYPE C |
| MTL: – | | BY: ENTRUV0 | SH 1 of 1 |

G7LY0306

CD0121




| | LINE A | LINE B | JOIN |
|---|---|---|---|
| HIGH | 1 | 4 | 2,3 |
| LOW | 1,3 | 2,4 | – |

NOTES:

1. CONNECTIONS ARE SHOWN FOR CCW ROTATION FACING END OPPOSITE SHAFT EXTENSION (STD). FOR CW ROTATION, INTERCHANGE 5 AND 8 INTERNALLY.
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: C | BY: JLP | REVISED: 04/08/99 4:14 | TDR: 0178636 |
| CD0121 | | FILE: AAA00007480 | MDL: – |
| | | MTL: – | TYPE C, DV, FIX, 4 LEADS |

CD0121