

BALDOR® • RELIANCE 

Product Information Packet

EHM3313T

10HP,1770RPM,3PH,60HZ,215T,3742M,OPSB,F1

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | Z | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 37WGT853 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 37J637 | Layout: | 37LYJ637 | Poles: | 04 | Created Date: | 06-16-2006 |
| Base: | RG | Eff. Date: | 07-18-2019 | Leads: | 9#14 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number: | EHM3313T | Insulation Class: | F |
| Enclosure: | OPSB | Inverter Code: | Inverter Ready |
| Frame: | 215T | KVA Code: | H |
| Frame Material: | Steel | Lifting Lugs: | Standard Lifting Lugs |
| Output @ Frequency: | 10.000 HP @ 60 HZ | Locked Bearing Indicator: | No Locked Bearing |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 14 AWG |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| | 230.0 V @ 60 HZ | Motor Lead Termination: | Flying Leads |
| XP Class and Group: | None | Motor Type: | 3742M |
| XP Division: | Not Applicable | Mounting Arrangement: | F1 |
| Agency Approvals: | CSA | Power Factor: | 82 |
| | UR | Product Family: | General Purpose |
| Auxillary Box: | No Auxillary Box | Pulley End Bearing Type: | Ball |
| Auxillary Box Lead Termination: | None | Pulley Face Code: | Standard |
| Base Indicator: | Rigid | Pulley Shaft Indicator: | Standard |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Rodent Screen: | None |
| Blower: | None | RoHS Status: | ROHS COMPLIANT |
| Current @ Voltage: | 12.500 A @ 460.0 V | Shaft Extension Location: | Pulley End |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| | 25.000 A @ 230.0 V | Shaft Ground Indicator: | No Shaft Grounding |
| | 26.000 A @ 208.0 V | Shaft Rotation: | Reversible |
| Design Code: | B | Shaft Slinger Indicator: | No Slinger |
| Drip Cover: | No Drip Cover | Speed Code: | Single Speed |
| Duty Rating: | CONT | Motor Standards: | NEMA |
| Electrically Isolated Bearing: | Not Electrically Isolated | Starting Method: | Direct on line |
| Feedback Device: | NO FEEDBACK | Thermal Device - Bearing: | None |
| Front Face Code: | Standard | Thermal Device - Winding: | None |
| Front Shaft Indicator: | None | Vibration Sensor Indicator: | No Vibration Sensor |
| Heater Indicator: | No Heater | Winding Thermal 1: | None |
| | | Winding Thermal 2: | None |

| Nameplate NP2094E06B03 | |
|------------------------|-------------------|
| CAT.NO. | EHM3313T |
| SPEC. | 37J637T853G1 |
| HP | 10 |
| VOLTS | 230/460 |
| AMPS | 25/12.5 |
| RPM | 1770 |
| FRAME | 215T |
| | HZ 60 |
| | PH 3 |
| SER.F. | 1.15 |
| | CODE H |
| | DES B |
| | CL F |
| NEMA-NOM-EFF | 91.7 |
| | PF 82 |
| RATING | 40C AMB-CONT |
| CC | 010A |
| | USABLE AT 208V 26 |
| DE | 6307 |
| | ODE 6206 |
| AUTO | N |
| | MANUAL N |
| | NONE Y |
| ENCL | OPSB |
| | SN |
| BLANK | |

| Parts List | | |
|-------------|--|----------|
| Part Number | Description | Quantity |
| SA145345 | SA 37J637T853G1 | 1.000 EA |
| RA134497 | RA 37J637T853G1 | 1.000 EA |
| HA6361A01 | LIFTING LUG FOR 37, 39 & 40 FRAME ZINC | 2.000 EA |
| 37CB3006 | 37 CB CASTING W/1.38 LEAD HOLE @ 6:00 | 1.000 EA |
| 51XW2520A10 | .25-20 X .62, TAPTITE II, HEX WSHR SLTD | 4.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 EA |
| 37EP3203D00 | MASTER,ODE,206 BRG,GREASER,RELIEF | 1.000 EA |
| HW4500A19 | 1/4-28X1/4 SLOTTED PLUG F/S | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| HW5100A06 | W2420-025 WVY WSHR (WB) | 1.000 EA |
| 37EP3204A00 | MASTER,DE,307 BRG,GREASER,RELIEF,AEGIS H | 1.000 EA |
| HW4500A19 | 1/4-28X1/4 SLOTTED PLUG F/S | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| 91XN0540J08 | SCREW, 5-40 X 1/2", FHC, AS | 4.000 EA |
| XY3118A12 | 5/16-18 HEX NUT DIRECTIONAL SERRATION | 4.000 EA |
| 37CB4516 | LIPPED LID FOR 37 FRAME NEC KOBX | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501F21 | KEY, 5/16 SQ X 2.375 | 1.000 EA |
| HA7000A02 | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 EA |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.050 LB |
| MG1000G27 | MED CHARCOAL METALLIC GREY 400-0096 | 0.028 GA |
| HA3104A35 | THRUBOLT .31-18 X 13.687 | 4.000 EA |
| 37AD2001A01 | BAFFLE PLATE, PLASTIC 0.63" WIDTH | 2.000 EA |

| Parts List (continued) | | |
|-------------------------------|---|-----------------|
| Part Number | Description | Quantity |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 EA |
| NP2094E06B03 | NP LABEL W/BARCODE (PREM EFF HVAC MTR) | 1.000 EA |
| 36PA1001 | PKG GRP, PRINT PK1017A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 3/19 | 1.000 EA |
| PE-0000001 | ZRTG PE ASSEMBLY | 1.000 EA |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 EA |

AC Induction Motor Performance Data

Record # 53404 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 37WGT853-R026 | Type: 3742M | Enclosure: OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|-------------------------|
| Rated Output (HP) | 10 | | | Full Load Torque | 29.7 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 25/12.5 | | | Breakdown Torque | 87.58 LB-FT |
| R.P.M. | 1770 | | | Pull-up Torque | 44.18 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 51.57 LB-FT |
| NEMA Design Code | B | KVA Code | H | Starting Current | 86.72 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 4.91 A |
| NEMA Nom. Eff. | 91.7 | Power Factor | 82 | Line-line Res. @ 25°C | 1.18 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 34°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 43°C |
| | | | | Locked-rotor Power Factor | 37.9 |
| | | | | Rotor inertia | 1.03 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 10 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|-------|------|-------|------|
| Power Factor | 48 | 70 | 80 | 84 | 86 | 86 | 83 |
| Efficiency | 87.7 | 91.8 | 92.2 | 91.7 | 90.8 | 89.5 | 91.4 |
| Speed | 1793 | 1785 | 1777 | 1769 | 1759 | 1749 | 1763 |
| Line amperes | 5.6 | 7.31 | 9.53 | 12.15 | 15 | 18.24 | 14.2 |

Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

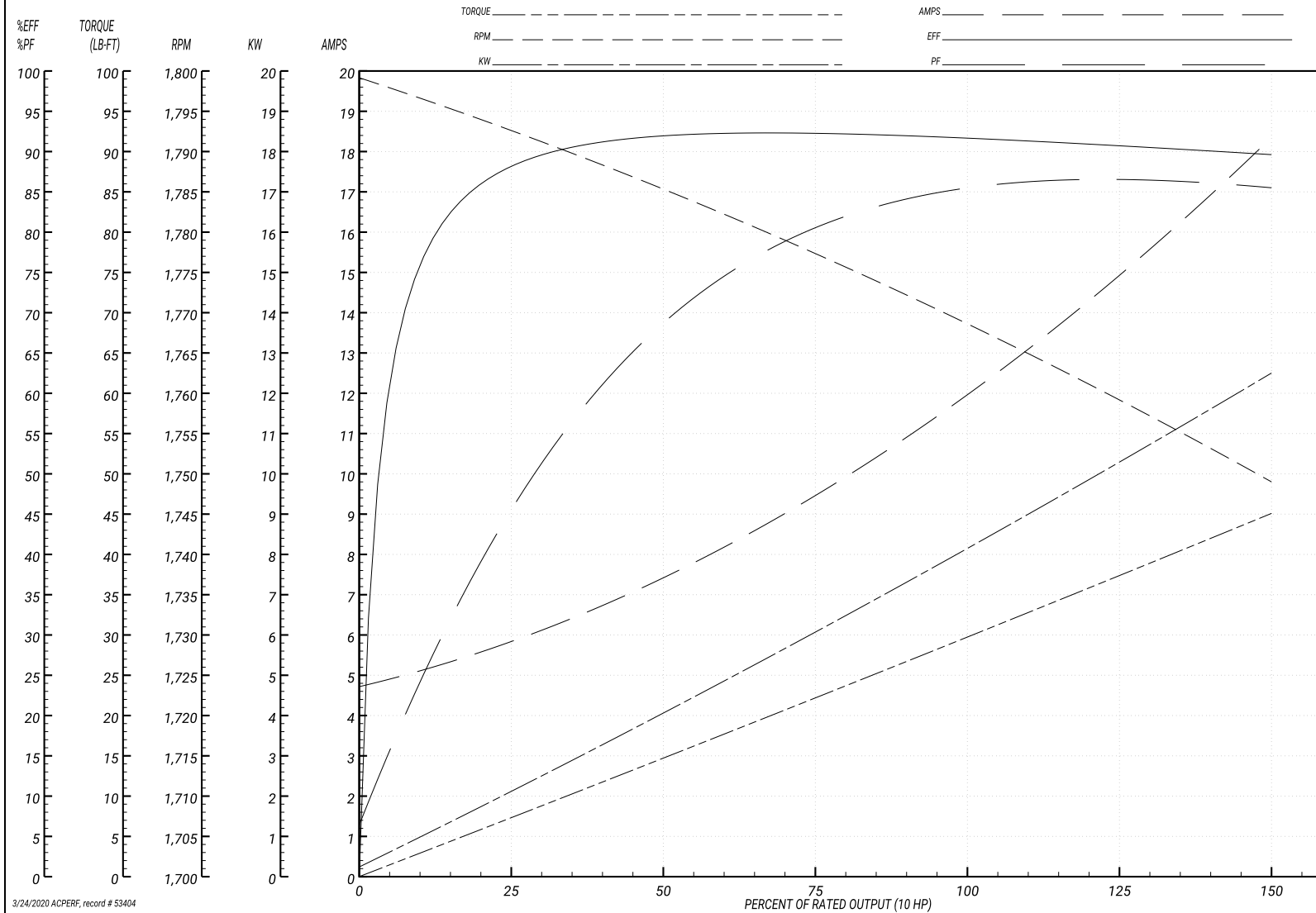
ABB Motors and Mechanical Inc.

WINDING # 37WGT853

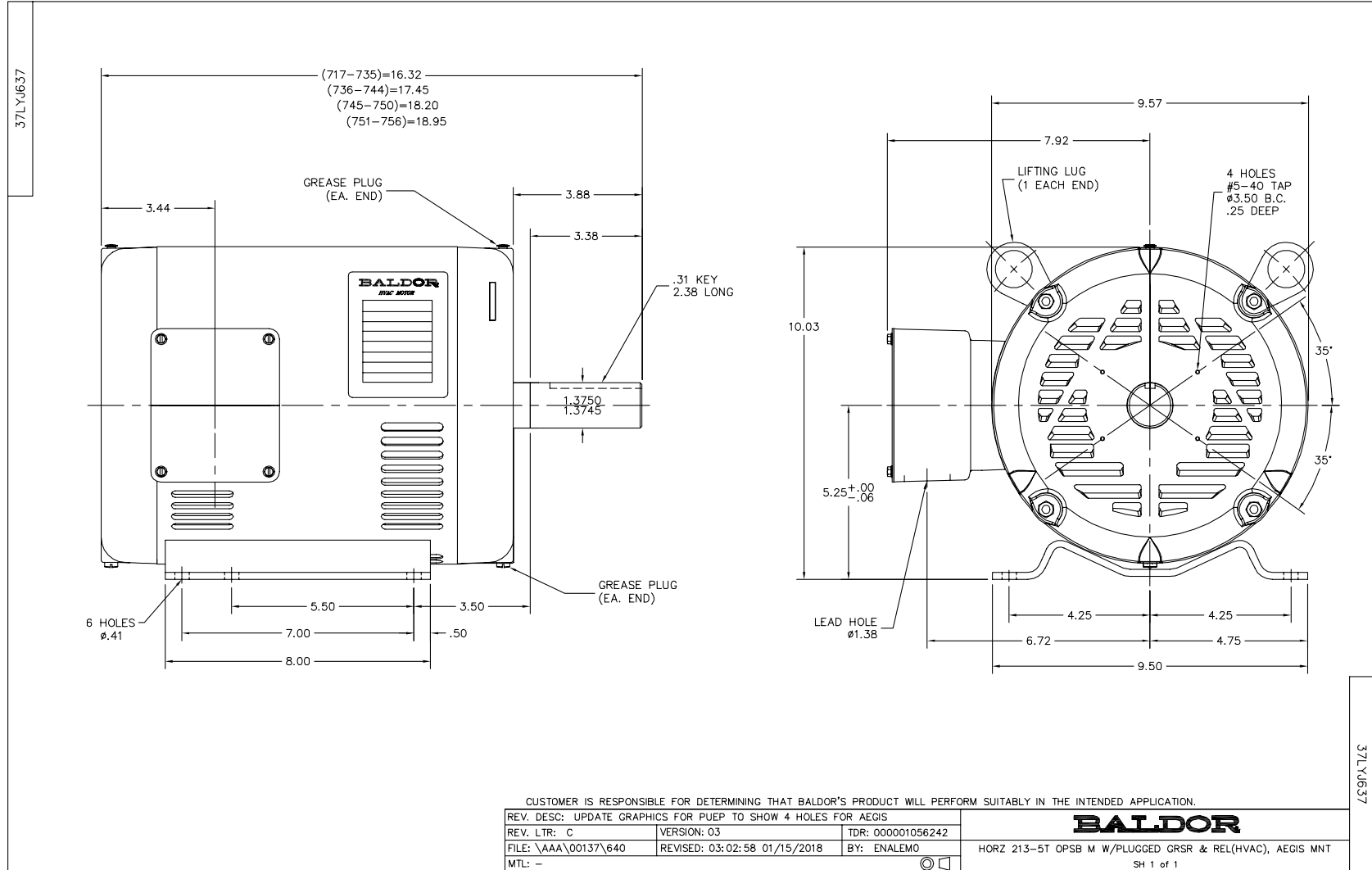
Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3742M

TORQUES(LB-FT): PO=87.58 PU=44.18 LR=51.57 LRA=86.72



3/24/2020 ACPERF, record # 53404



CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: E BY: JLP

REVISED: 01/19/99 10:15

TDR: 0171435

90000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005