



Product Information Packet

EM3714T

10HP,1770RPM,3PH,60HZ,215T,3752M,TEFC,F1

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | R | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 37WGS518 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 37H244 | Layout: | 37LYH244 | Poles: | 04 | Created Date: | 06-30-2010 |
| Base: | RG | Eff. Date: | 07-18-2019 | Leads: | 9#14 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number: | EM3714T | Heater Indicator: | No Heater |
| Enclosure: | TEFC | Insulation Class: | F |
| Frame: | 215T | Inverter Code: | Inverter Ready |
| Frame Material: | Steel | KVA Code: | K |
| Output @ Frequency: | 10.000 HP @ 60 HZ | Lifting Lugs: | Standard Lifting Lugs |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | Locked Bearing Indicator: | No Locked Bearing |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 14 AWG |
| | 230.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| XP Class and Group: | None | Motor Lead Termination: | Flying Leads |
| XP Division: | Not Applicable | Motor Type: | 3752M |
| Agency Approvals: | UR | Mounting Arrangement: | F1 |
| | CSA EEV | Power Factor: | 85 |
| | CSA | 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 | Shaft Extension Location: | Pulley End |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| Current @ Voltage: | 12.000 A @ 460.0 V | Shaft Ground Indicator: | No Shaft Grounding |
| | 24.000 A @ 230.0 V | Shaft Rotation: | Reversible |
| | 25.400 A @ 208.0 V | Shaft Slinger Indicator: | No Slinger |
| Design Code: | A | Speed Code: | Single Speed |
| Drip Cover: | No Drip Cover | Motor Standards: | NEMA |
| Duty Rating: | CONT | Starting Method: | Direct on line |
| Electrically Isolated Bearing: | Not Electrically Isolated | Thermal Device - Bearing: | None |
| Feedback Device: | NO FEEDBACK | Thermal Device - Winding: | None |
| Front Face Code: | Standard | Vibration Sensor Indicator: | No Vibration Sensor |
| Front Shaft Indicator: | None | Winding Thermal 1: | None |
| | | Winding Thermal 2: | None |

Nameplate NP3441LUA

| | | | | | | | | | | | | |
|---------------------------|-------------------------------|--|--|----------------|-----|-----|------|---|-------|------|----|---|
| CAT.NO. | EM3714T | | | | | | | | | | | |
| SPEC | 37H244S518G3 | | | | | | | | | | | |
| HP | 10 | | | | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | | | | |
| AMPS | 24/12 | | | | | | | | | | | |
| RPM | 1770 | | | | | | | | | | | |
| FRAME | 215T | | | | HZ | | 60 | | | | PH | 3 |
| SF | 1.15 | | | CODE | K | DES | | A | CLASS | | F | |
| NEMA NOM. EFF | 91.7 | | | PF | 85 | | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | | | | |
| CC | 010A | | | USABLE AT 208V | | | | | | 25.4 | | |
| ENCL | TEFC | | | SER | | | | | | | | |
| DE | 6307 | | | | ODE | | 6206 | | | | | |
| VPWM INVERTER READY | | | | | | | | | | | | |
| CT6-60H(10:1)VT3-60H(20:1 | | | | | | | | | | | | |
| | 50Hz 10HP 190/380V 29.2/14.6A | | | | | | | | | | | |
| | SF1.0 | | | | | | | | | | | |

| Parts List | | |
|-------------|--|----------|
| Part Number | Description | Quantity |
| SA199522 | SA 37H244S518G3 | 1.000 EA |
| RA186854 | RA 37H244S518G3 | 1.000 EA |
| 37FN3002C01 | EXFN, PLASTIC, 6.00 OD, 1.155 ID | 1.000 EA |
| HW3200A01 | 3/8-16X3/4 I-BLT WELDED F/S | 1.000 EA |
| 37CB3006 | 37 CB CASTING W/1.38 LEAD HOLE @ 6:00 | 1.000 EA |
| 37GS1000SP | GASKET, CONDUIT BOX STD., .06 THICK LEXI | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 37EP3101A01 | FR ENDPLATE, FOR ROUTING PURPOSES | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW5100A06 | W2420-025 WVY WSHR (WB) | 1.000 EA |
| 37PE3100A01 | PUEP ASSEMBLY - ROUTING PUPROSES | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| XY3118A12 | 5/16-18 HEX NUT DIRECTIONAL SERRATION | 4.000 EA |
| 07FH4007SP | PRIMED | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 37CB4516 | LIPPED LID FOR 37 FRAME NEC KOBX | 1.000 EA |
| 37GS1008 | 37 GS FOR CB LID - LEXIDE | 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 |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.050 LB |

| Parts List (continued) | | |
|------------------------|--|----------|
| Part Number | Description | Quantity |
| 51XB1214A20 | 12-14X1.25 HXWSSLD SERTYB | 1.000 EA |
| HA3104A25 | THRUBOLT .31-18 X 14.75 | 4.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.028 GA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP3441LUA | ALUM SUPER-E VPWM INV READY UL CSA-EEV C | 1.000 EA |
| 37PA1039 | PALLET PACK GRP, PRINT PK1026A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 3/19 | 1.000 EA |

| Accessories | | |
|-------------|-------------|------------|
| Part Number | Description | Multiplier |
| 37-3301 | C FACE KIT | P1 |

AC Induction Motor Performance Data

Record # 62607 - Typical performance - not guaranteed values

| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 37WGS518-R015 | Type: 3752M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|-------------------------|
| Rated Output (HP) | 10 | | | Full Load Torque | 29.45 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 24/12 | | | Breakdown Torque | 134 LB-FT |
| R.P.M. | 1770 | | | Pull-up Torque | 49.2 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 68.7 LB-FT |
| NEMA Design Code | A | KVA Code | K | Starting Current | 103 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 5.49 A |
| NEMA Nom. Eff. | 91.7 | Power Factor | 85 | Line-line Res. @ 25°C | 0.937 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 63°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 77°C |
| | | | | Locked-rotor Power Factor | 35.5 |
| | | | | Rotor inertia | 1.28 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 10 HP

| | | | | | | | |
|-----------------|------|------|------|------|------|------|------|
| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
| Power Factor | 42 | 64 | 76 | 82 | 86 | 88 | 84 |
| Efficiency | 88.6 | 92.4 | 92.7 | 91.8 | 90.8 | 88.9 | 91.2 |
| Speed | 1794 | 1787 | 1780 | 1772 | 1763 | 1753 | 1767 |
| Line amperes | 6.14 | 7.8 | 9.9 | 12.3 | 15 | 17.9 | 13.9 |

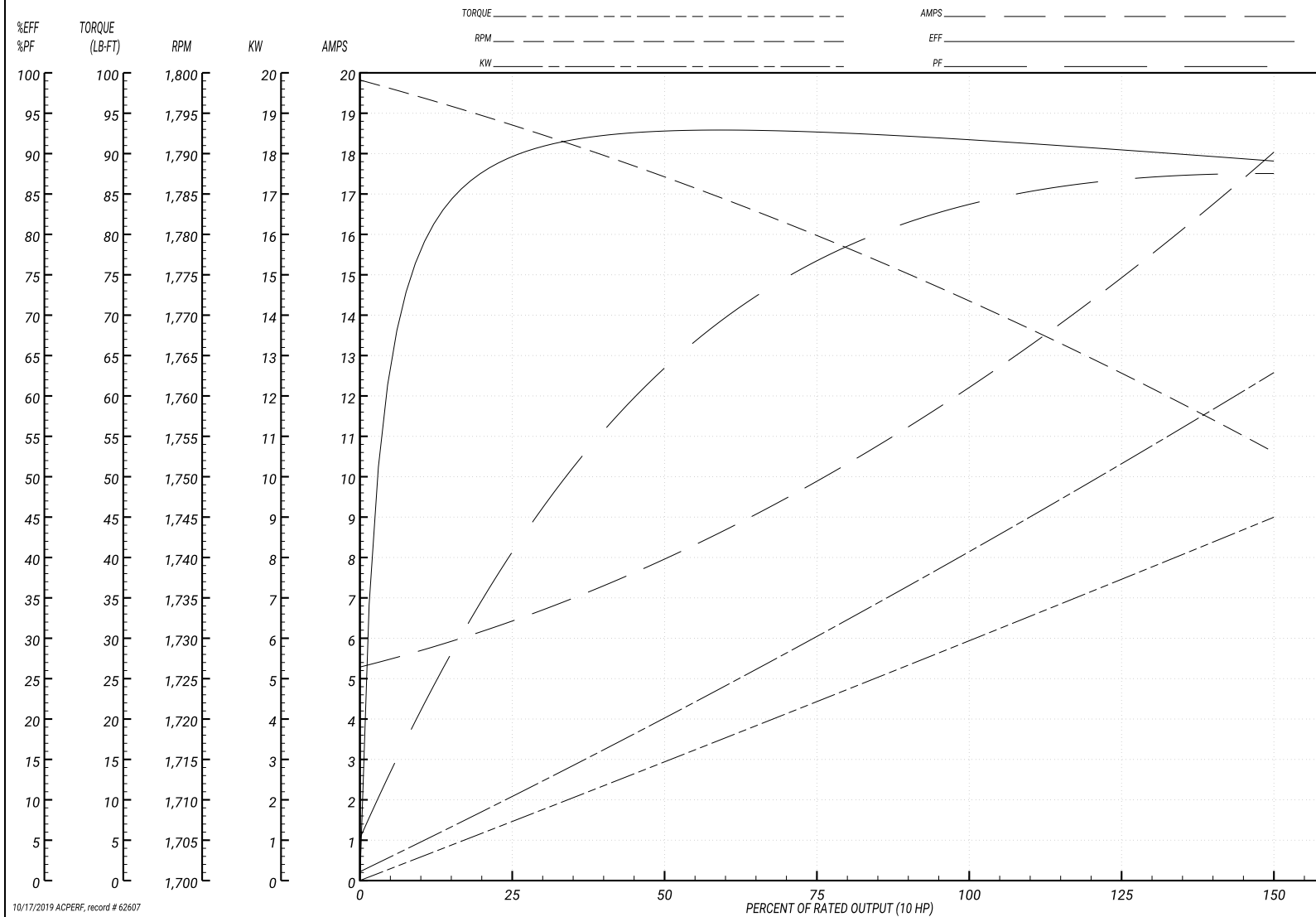
Performance Graph at 460V, 60Hz, 10.0HP Typical performance - Not guaranteed values

BALDOR ELECTRIC COMPANY
WINDING # 37WGS518

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 1770 RPM 460 V 3752M

TORQUES(LB-FT): PO=134 PU=49.2 LR=68.7 LRA=103



10/17/2019 ACPERF, record # 62607

