

BALDOR® • RELIANCE

Product Information Packet

EWDM3714T

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

| Part Detail | | | | | | | |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision: | H | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Prod. Type: | 3752M | Elec. Spec: | 37WGS518 | CD Diagram: | CD0005 |
| Enclosure: | TEFC | Mfg Plant: | | Mech. Spec: | 37H451 | Layout: | 37LYH451 |
| Frame: | 215T | Mounting: | F1 | Poles: | 04 | Created Date: | 04-29-2010 |
| Base: | RG | Rotation: | R | Insulation: | F | Eff. Date: | 09-21-2015 |
| Leads: | 9#14 | | | | | Replaced By: | |
| Literature: | | Elec. Diagram: | | | | | |

| | | | | | | | |
|--------------------------|--------------|----------------|------|-----|---|-------|---|
| Nameplate NP1669L | | | | | | | |
| CAT.NO. | EWDM3714T | | | | | | |
| SPEC. | 37H451S518G1 | | | | | | |
| HP | 10 | | | | | | |
| VOLTS | 230/460 | | | | | | |
| AMP | 24/12 | | | | | | |
| RPM | 1770 | | | | | | |
| FRAME | 215T | HZ | 60 | PH | 3 | | |
| SER.F. | 1.15 | CODE | K | DES | A | CLASS | F |
| NEMA-NOM-EFF | 91.7 | PF | 85 | | | | |
| RATING | 40C AMB-CONT | | | | | | |
| CC | 010A | USABLE AT 208V | | | | | |
| DE | 6307 | ODE | 6206 | | | | |
| ENCL | TEFC | SN | | | | | |
| BLANK | | | | | | | |

| Parts List | | |
|----------------|--|----------|
| Part Number | Description | Quantity |
| SA194360 | SA 37H451S518G1 | 1.000 EA |
| RA181950 | RA 37H451S518G1 | 1.000 EA |
| 37FN3002C01 | EXFN, PLASTIC, 6.00 OD, 1.155 ID | 1.000 EA |
| S/P107-000-001 | SUPER E PROC'S-FS, WS & CK PLTS | 1.000 EA |
| HW3200A01 | 3/8-16X3/4 I-BLT WELDED F/S | 1.000 EA |
| 37CB3005A04W | CASTING W/.75 NPT@6(MACH WHITE) | 1.000 EA |
| 37GS1015 | GASKET, FOR 37 WD KOBX'S (SANTOPRENE) | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 2.000 EA |
| HA5027A01 | HA4066A01 T-DRAIN X2 BAGGED | 1.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 37EP3101A94MW | FRONT TEFC L&M 206 BRG W/O GRSSR (WHITE) | 1.000 EA |
| HW4032A01 | BLACK DRAIN PLUG FOR WASH DOWN MOTORS | 3.000 EA |
| HW5100A06 | W2420-025 WVY WSHR (WB) | 1.000 EA |
| 37EP3100A20MW | FRONT ENDPLATE, MACHINED W/WHITE EPOXY | 1.000 EA |
| HW4032A01 | BLACK DRAIN PLUG FOR WASH DOWN MOTORS | 3.000 EA |
| HW4600B51SP | SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB | 1.000 EA |
| XY3118S12 | 5/16-18 HEX NUT, STAINLESS STEEL | 4.000 EA |
| 51XB1214A20 | 12-14X1.25 HXWSSLD SERTYB | 1.000 EA |
| 07FH4011 | WASHDOWN IEC FH W/AUTOPHORETIC PRIMER | 1.000 EA |
| 11XW1032S06 | SCREW, HXWSHR HD SLDTYF 410 SS | 3.000 EA |
| 37CB4512 | CONDUIT BOX LID FOR WASHDOWN 37 FRAME | 1.000 EA |
| 37GS1008A02 | 37 GS FOR CB LID - WHITE NEOPRENE | 1.000 EA |
| 59XN0832S07 | 8/32 X 7/16 HX WS HD SER X | 4.000 EA |
| HW4600B74 | FORSHEDA V28A V-RING SEAL | 1.000 EA |

| Parts List (continued) | | |
|-------------------------------|--|-----------------|
| Part Number | Description | Quantity |
| HW4600B31SP | V-RING SLINGER #V38A,1.42/1.50 SH BORE | 1.000 EA |
| HW2502F21 | #303 SS,SQ KEY 5/16 X 2.375 | 1.000 EA |
| HA7000A02 | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 EA |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.001 QT |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| LB1164 | LABEL,WARNING AND DRAIN | 1.000 EA |
| MJ1000A75 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| MG1025Z02 | ACTIVATOR WILKOFAS 060-02 | 0.010 GA |
| MG1025W01 | RAL9003, SIGNAL WHITE, GLOSS 85 | 0.028 GA |
| HA3104S25 | THRUBOLT-5/16-18X14.75 SS | 4.000 EA |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 EA |
| NP1669L | SS WD SUPER-E UL CSA-EEV PREM REV MTG | 1.000 EA |
| 37PA1052 | PALLET PACK GRP, PRINT PK1026A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 11/14 | 1.000 EA |

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

AC Induction Motor Performance Data

Record # 30674 - Typical performance - not guaranteed values

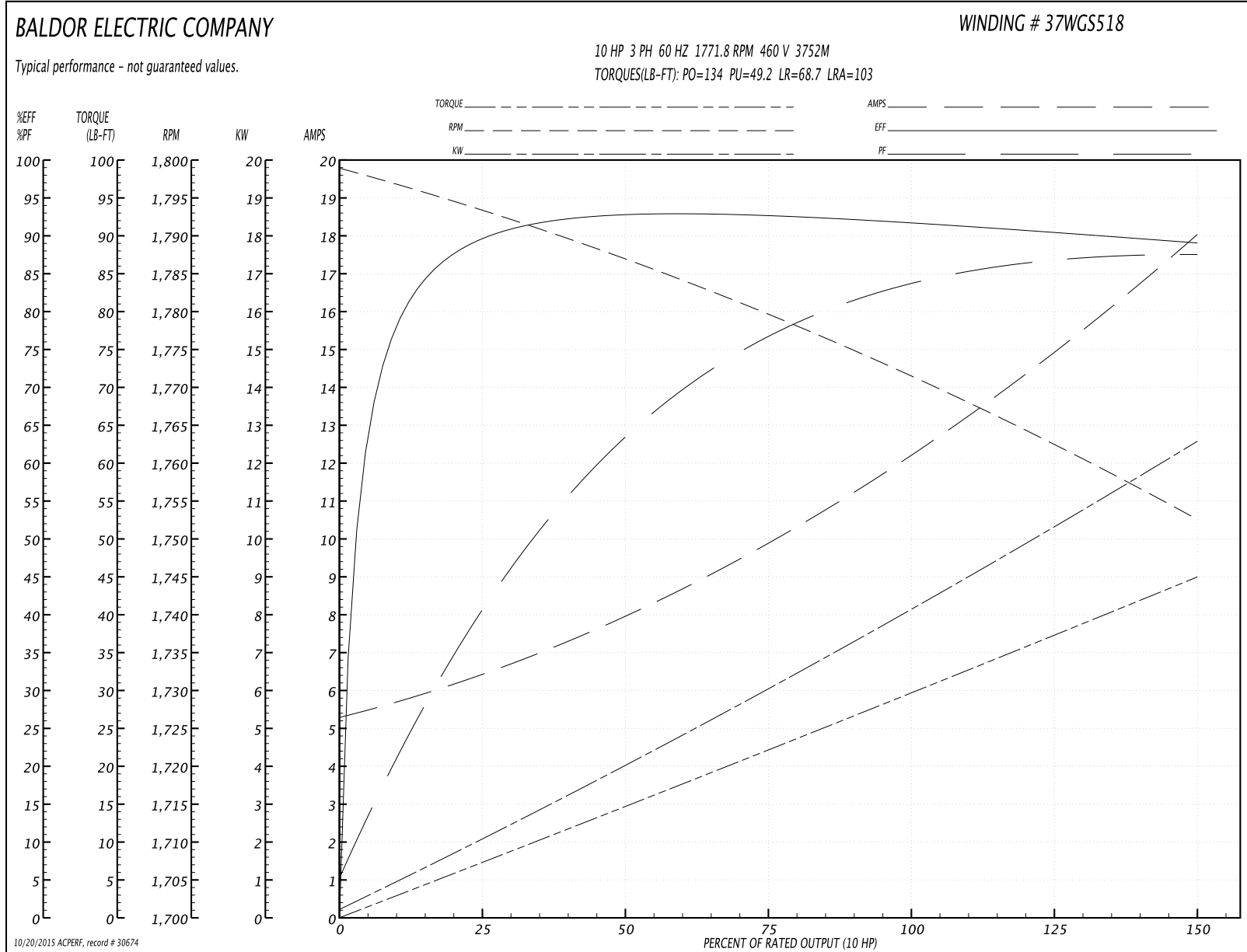
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 37WGS518-R001 | Type: 3752M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|------------------|--------------|----|--|-------------------------|
| Rated Output (HP) | 10//7.5 | | | Full Load Torque | 29.45 LB-FT |
| Volts | 230/460//190/380 | | | Start Configuration | direct on line |
| Full Load Amps | 24/12//22/11 | | | Breakdown Torque | 134 LB-FT |
| R.P.M. | 1770//1475 | | | Pull-up Torque | 49.2 LB-FT |
| Hz | 60//50 | 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 | 0.93503 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 63°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 81°C |
| | | | | 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 | 66 | 79 | 85 | 84 | 87 | 84 |
| Efficiency | 88.9 | 92.1 | 92.4 | 91.8 | 90.3 | 89 | 90.9 |
| Speed | 1793.9 | 1786.8 | 1779.7 | 1771.8 | 1762.7 | 1752.5 | 1766 |
| 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



AC Induction Motor Performance Data

Record # 30675 - Typical performance - not guaranteed values

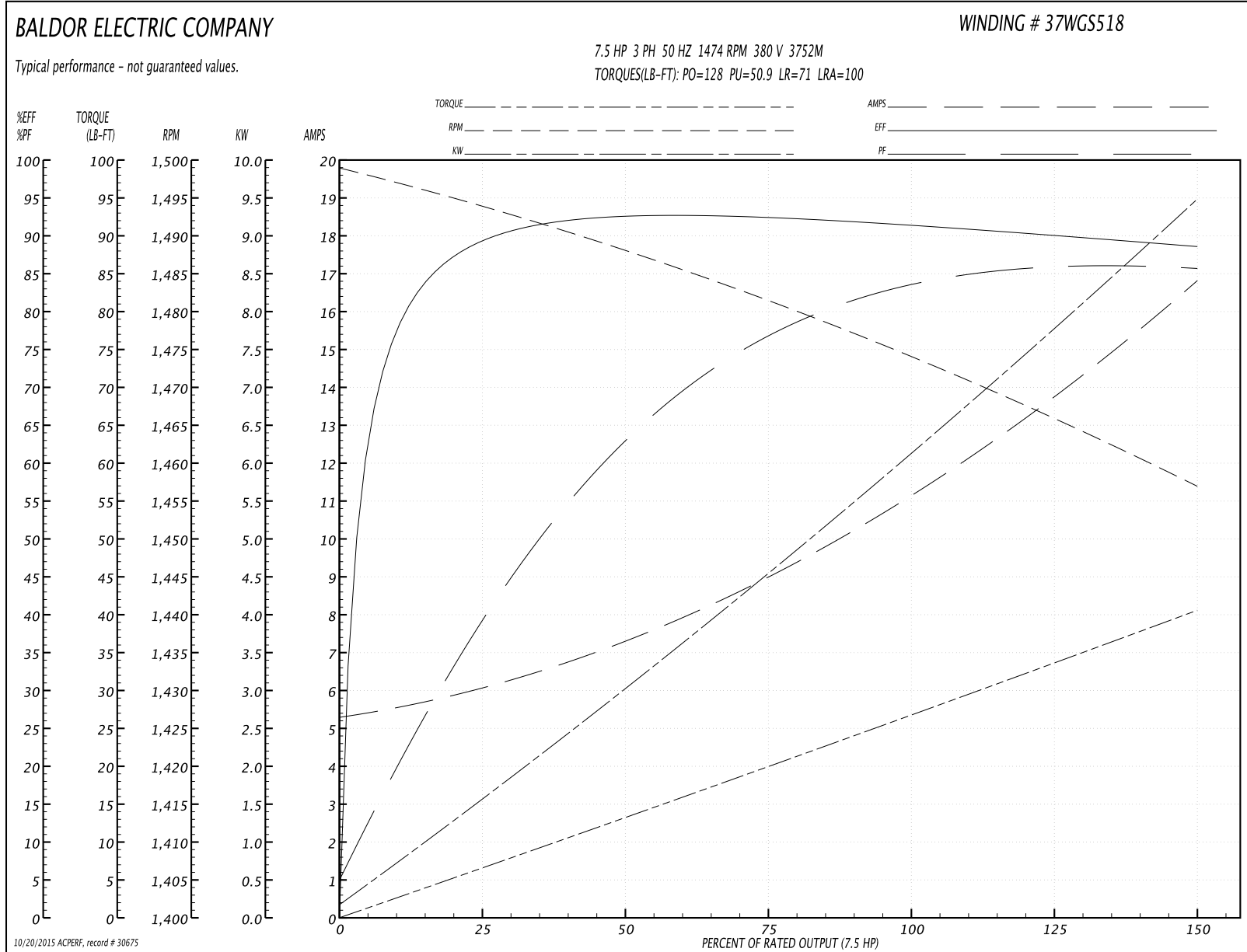
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 37WGS518-R001 | Type: 3752M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

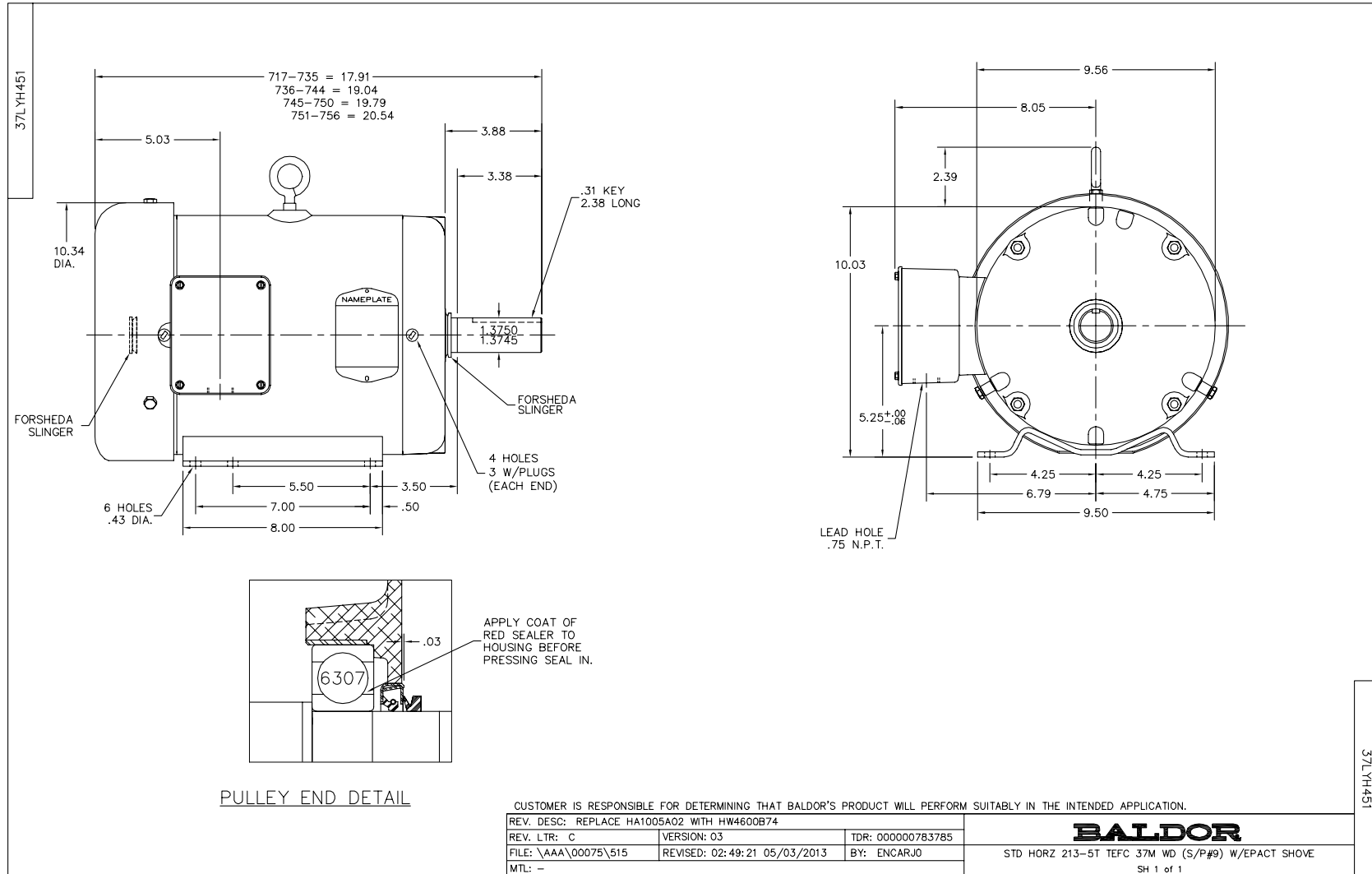
| Nameplate Data | | | | 380 V, 50 Hz: High Voltage Connection | |
|-----------------------|------------------|--------------|----|--|-------------------------|
| Rated Output (HP) | 10//7.5 | | | Full Load Torque | 26.6 LB-FT |
| Volts | 230/460//190/380 | | | Start Configuration | direct on line |
| Full Load Amps | 24/12//22/11 | | | Breakdown Torque | 128 LB-FT |
| R.P.M. | 1770//1475 | | | Pull-up Torque | 50.9 LB-FT |
| Hz | 60//50 | Phase | 3 | Locked-rotor Torque | 71 LB-FT |
| NEMA Design Code | A | KVA Code | K | Starting Current | 100 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 5.4 A |
| NEMA Nom. Eff. | 91.7 | Power Factor | 85 | Line-line Res. @ 25°C | 0.912 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 56°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 68°C |
| | | | | Rotor inertia | 1.28 LB-FT ² |

Load Characteristics 380 V, 50 Hz, 7.5 HP

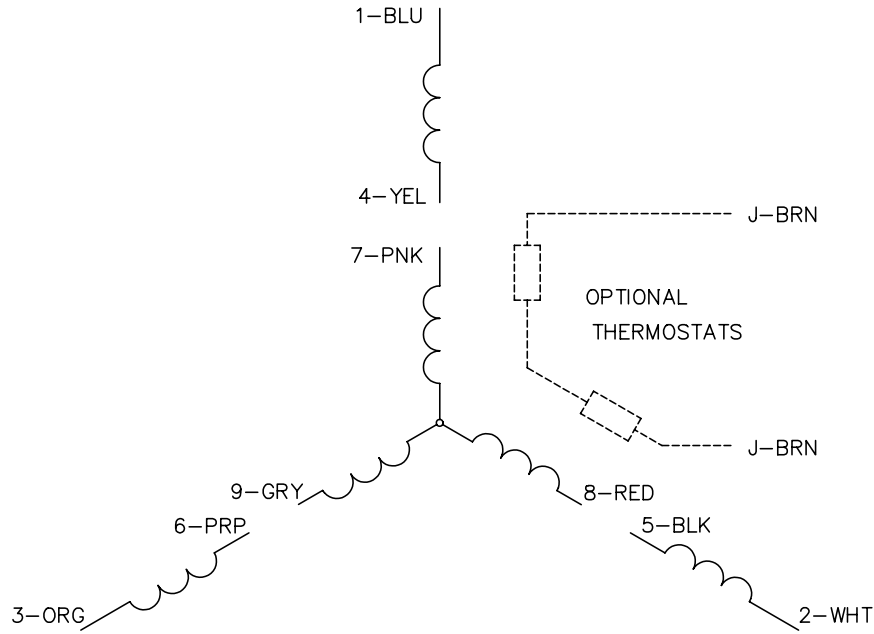
| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 40 | 63 | 77 | 84 | 83 | 87 | 83 |
| Efficiency | 88 | 92.3 | 92.3 | 91.7 | 90.3 | 88.4 | 90.9 |
| Speed | 1494 | 1488 | 1482 | 1474 | 1466 | 1457 | 1469 |
| Line amperes | 5.93 | 7.22 | 8.93 | 11 | 14.1 | 16.6 | 12.9 |

Performance Graph at 380V, 50Hz, 7.5HP Typical performance - Not guaranteed values

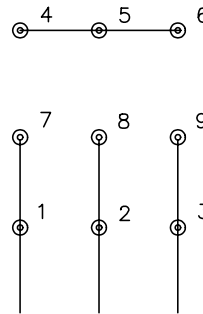




CD0005

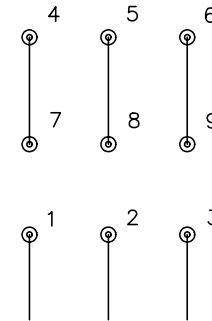


LOW VOLTAGE
(2Y)



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