

BALDOR® • **RELIANCE**

Product Information Packet

EM2536T

30HP, 1180RPM, 3PH, 60HZ, 326T, 4084M, OPSB, F1

| Part Detail | | | | | | | |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision: | R | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Prod. Type: | 4084M | Elec. Spec: | 40WGX122 | CD Diagram: | CD0005 |
| Enclosure: | OPSB | Mfg Plant: | | Mech. Spec: | 40E212 | Layout: | 40LYE212 |
| Frame: | 326T | Mounting: | F1 | Poles: | 06 | Created Date: | 06-03-2009 |
| Base: | RG | Rotation: | R | Insulation: | F | Eff. Date: | 01-03-2017 |
| Leads: | 9#10 | | | | | Replaced By: | |
| Literature: | | Elec. Diagram: | | | | | |

| Nameplate NP2138L | | | | | | | | | | | |
|-------------------|--------------|----|----------|----------------|------------|-------------------------|----|-----------|------|--------|------|
| CAT.NO. | EM2536T | | | P/N | | | | ENCLOSURE | OPSB | | |
| SPEC. | 40E212X122 | | CC | 010A | FRAME | 326T | | S/N | | | |
| HP | 30 | | | CLASS | F | HZ | 60 | | | | |
| RPM | 1180 | | | PH | 3 | DES | A | | | | |
| VOLT | 230/460 | | | | KVA-CODE | H | | ODE BRG | 6309 | DE BRG | 6312 |
| AMP | 76/38 | | | USABLE AT 208V | 80 | | | | | | |
| RATING | 40C AMB-CONT | | | GREASE | POLYREX EM | | | | | | |
| NEMA-NOM-EFF | 93.6 | PF | 79 | SER.F. | 1.15 | | | | | | |
| HTR-VOLTS | | | HTR-AMPS | | | MAX. SPACE HEATER TEMP. | | | | | |

| Parts List | | |
|----------------|------------------------------------------|----------|
| Part Number | Description | Quantity |
| SA182829 | SA 40E212X122 | 1.000 EA |
| RA170721 | RA 40E212X122 | 1.000 EA |
| S/P107-000-004 | SUPER-E(284 FR. & UP)-CL PLANT,POLYREX E | 1.000 EA |
| HA6361A01 | LIFTING LUG FOR 37, 39 & 40 FRAME ZINC | 2.000 EA |
| HA6017 | CAST ADAPTER, 40,42 KOBX | 1.000 EA |
| 19XW3118A12 | .31-18 X .75 HEX WASHER HEAD TAPTITE II | 2.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 2.000 EA |
| 10CB3001 | CONDUIT BOX CAST W/2.500 LEAD HOLE | 1.000 EA |
| 19XW3118A12 | .31-18 X .75 HEX WASHER HEAD TAPTITE II | 4.000 EA |
| HW1001A31 | LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I | 4.000 EA |
| WD1000B16 | T&B CX70TN TERMINAL | 1.000 EA |
| 51XF2520A08 | SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L | 1.000 EA |
| 40EP3200A02 | STD FREP OPEN 309 BRG | 1.000 EA |
| HW5100A11 | W3917-042 WVY WSHR (WB) | 1.000 EA |
| 40EP3201A01 | PU ENDPLATE, MACH - OPEN - FOR 312 BRG | 1.000 EA |
| XY3816A12 | 3/8-16 FINISHED NUT | 8.000 EA |
| 10CB3500SP | CONDUIT BOX LID, CAST | 1.000 EA |
| 51XW2520A12 | .25-20 X .75, TAPTITE II, HEX WSHR SLTD | 4.000 EA |
| HW2501H33 | KEY, 1/2 SQ X 3.875 | 1.000 EA |
| LB1115N | LABEL,LIFTING DEVICE (ON ROLLS) | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1000/bx) 11/14 | 1.000 EA |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |

| Parts List (continued) | | |
|-------------------------------|------------------------------------------|-----------------|
| Part Number | Description | Quantity |
| MJ1000A02 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| HA4051A00 | PLASTIC CAP FOR GREASE FITTING | 1.000 EA |
| HW4500A03 | GREASE FITTING, .125 NPT 1610(ALEMITE) 8 | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| HA3159A12 | THRUBOLT.38-16 X 21.50 LG, SEE ADD. DATA | 4.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.030 GA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 4.000 EA |
| 40AD2002A01 | LEXAN BAFFLE 40 FR OPEN | 1.000 EA |
| 40AD2002A01 | LEXAN BAFFLE 40 FR OPEN | 1.000 EA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| NP2138L | ALUM SUPER-E UL CSA-EEV PREM CC (300 | 1.000 EA |
| 40PA1000 | PACKAGING GROUP | 1.000 EA |

AC Induction Motor Performance Data

Record # 21238 - Typical performance - not guaranteed values

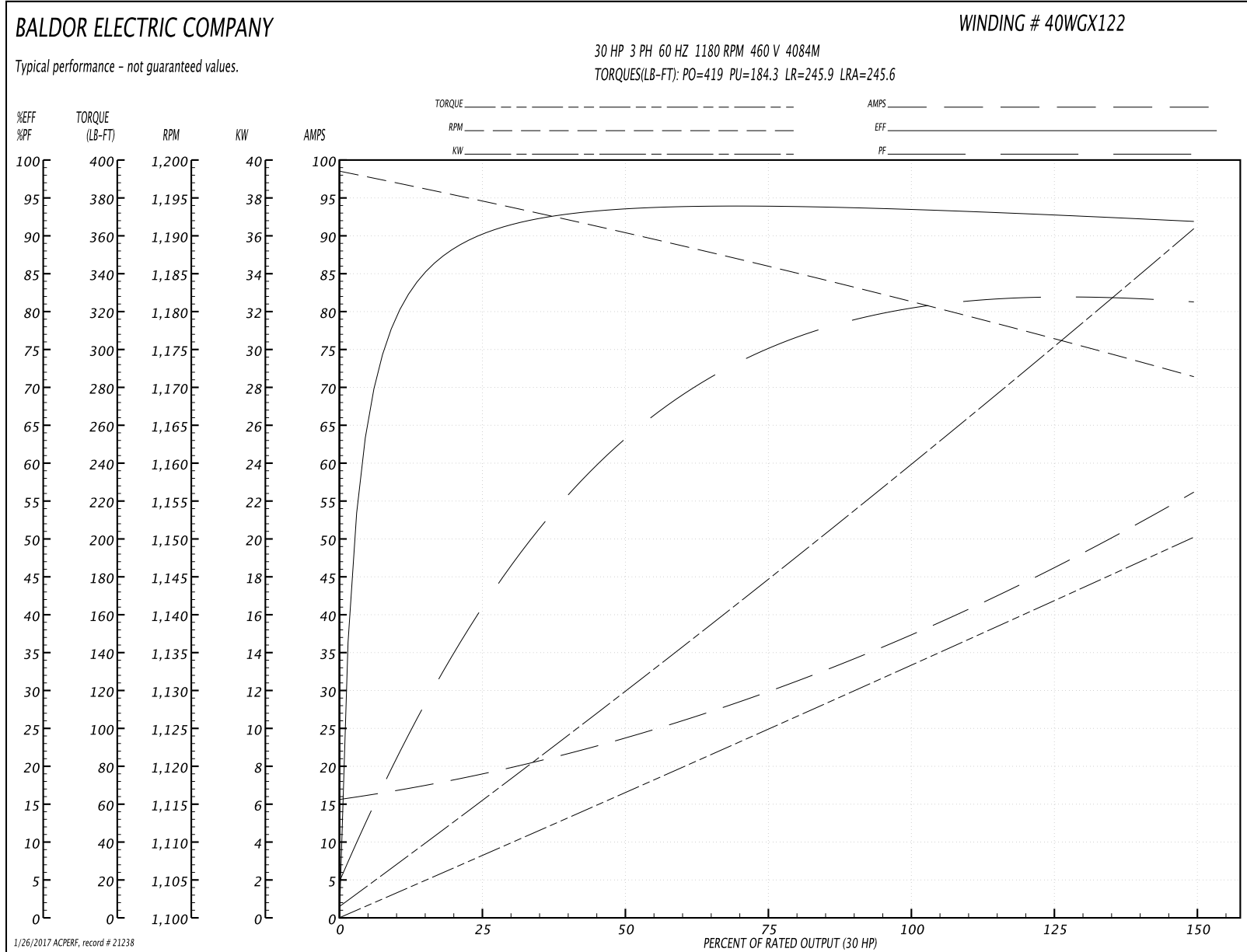
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 40WGX122-R001 | Type: 4084M | Enclosure: OPSB |
|-------------------------------|--------------------|------------------------|

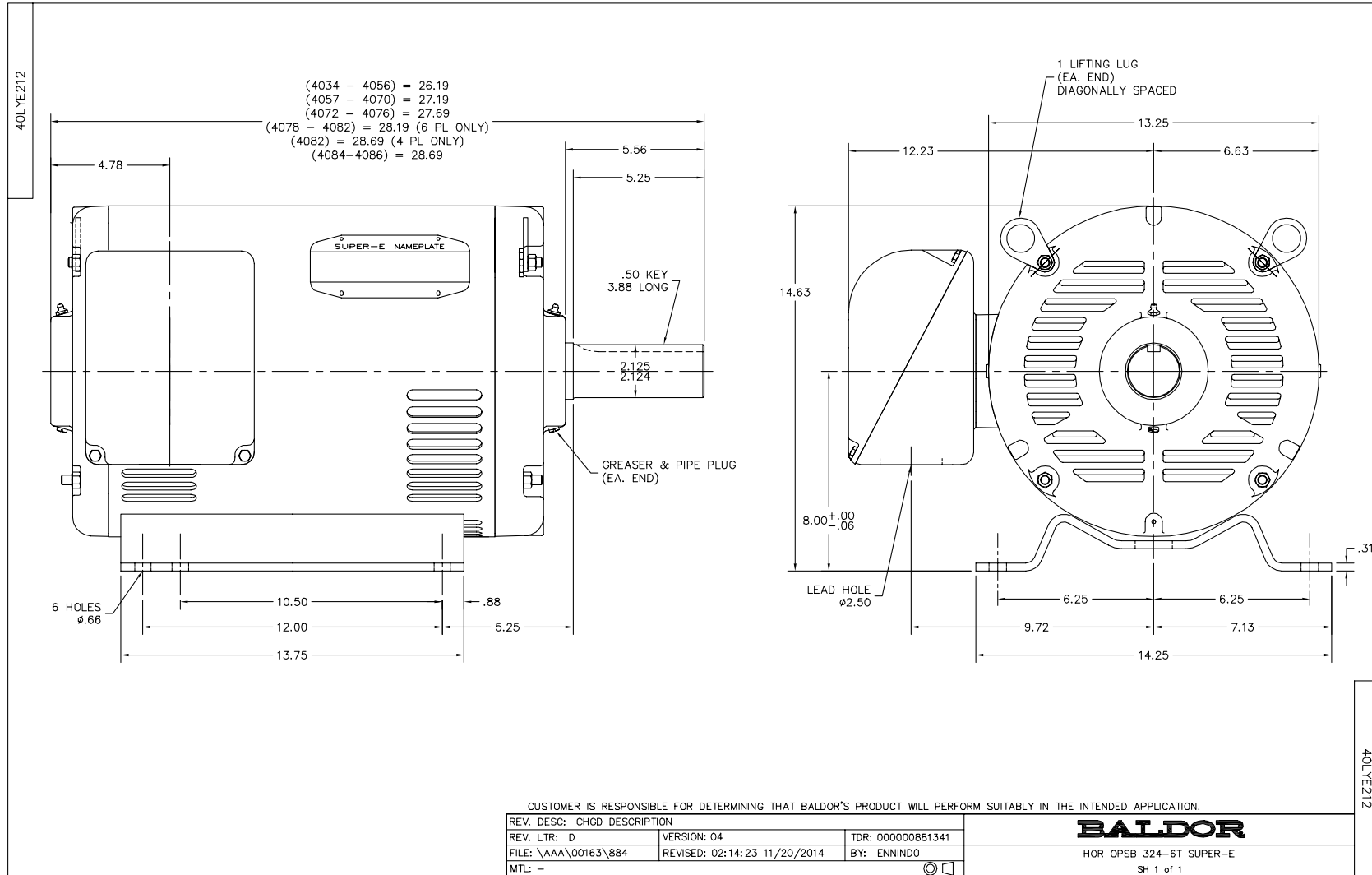
| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|------------------------------------------|-------------------------|
| Rated Output (HP) | 30 | | | Full Load Torque | 132 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 76/38 | | | Breakdown Torque | 419 LB-FT |
| R.P.M. | 1180 | | | Pull-up Torque | 184.3 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 245.9 LB-FT |
| NEMA Design Code | A | KVA Code | H | Starting Current | 245.6 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 16.2 A |
| NEMA Nom. Eff. | 93.6 | Power Factor | 79 | Line-line Res. @ 25°C | 0.22 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 38°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 48°C |
| | | | | Locked-rotor Power Factor | 29 |
| | | | | Rotor inertia | 10.3 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 30 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 44 | 65 | 75 | 80 | 82 | 82 | 81 |
| Efficiency | 90.3 | 93.4 | 93.8 | 93.6 | 92.9 | 92 | 93.2 |
| Speed | 1194 | 1190 | 1186 | 1182 | 1177 | 1171 | 1179 |
| Line amperes | 18.3 | 23.4 | 30 | 37.5 | 46.1 | 55.8 | 42.7 |

Performance Graph at 460V, 60Hz, 30.0HP 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