

BALDOR[®] • RELIANCE 

Product Information Packet

EM2536T

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

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | X | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 40WGX122 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 40E212 | Layout: | 40LYE212 | Poles: | 06 | Created Date: | 06-03-2009 |
| Base: | RG | Eff. Date: | 08-21-2018 | Leads: | 9#8 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------------|
| Catalog Number: | EM2536T | Inverter Code: | Inverter Ready |
| Enclosure: | OPSB | IP Rating: | NONE |
| Frame: | 326T | KVA Code: | H |
| Frame Material: | Steel | Lifting Lugs: | Standard Lifting Lugs |
| Output @ Frequency: | 30.000 HP @ 60 HZ | Locked Bearing Indicator: | No Locked Bearing |
| Synchronous Speed @ Frequency: | 1200 RPM @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 8 AWG |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| | 230.0 V @ 60 HZ | Motor Lead Termination: | Flying Leads |
| Agency Approvals: | CSA | Motor Type: | 4084M |
| | CSA EEV | Mounting Arrangement: | F1 |
| | UR | Power Factor: | 77 |
| Auxillary Box: | No Auxillary Box | Product Family: | General Purpose |
| Auxillary Box Lead Termination: | None | Pulley End Bearing Type: | Ball |
| Base Indicator: | Rigid | Pulley Face Code: | Standard |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Pulley Shaft Indicator: | Standard |
| Blower: | None | Rodent Screen: | None |
| Current @ Voltage: | 82.000 A @ 208.0 V | Shaft Extension Location: | Pulley End |
| | 78.000 A @ 230.0 V | Shaft Ground Indicator: | No Shaft Grounding |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| | 39.000 A @ 460.0 V | Shaft Rotation: | Reversible |
| Design Code: | A | 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 |
| Insulation Class: | F | Winding Thermal 2: | None |

| Nameplate NP2138LUA | | | | | | | | | | | | |
|---------------------|---------------------------|--|----|----------------|------------|--------|---------|-----------|------|--------|------|--|
| 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 | 78/39 | | | USABLE AT 208V | 82 | | | | | | | |
| RATING | 40C AMB-CONT | | | GREASE | POLYREX EM | | | | | | | |
| NEMA-NOM-EFF | 93.6 | | PF | 77 | | SER.F. | 1.15 | | | | | |
| HTR-VOLTS | 50Hz 30Hp 190/380V 88/44A | | | | | SF 1.0 | | | | | | |
| | HTR-AMPS | | | | | | | | | | | |

| Parts List | | |
|-------------|--|----------|
| Part Number | Description | Quantity |
| SA182829 | SA 40E212X122 | 1.000 EA |
| RA170721 | RA 40E212X122 | 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 |
| WD1000B25 | GND LUG, BURNDY L125HP OR T&B L125HP-BB | 1.000 EA |
| 19XW3118G08 | .31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN | 1.000 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 |
| 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 (2100/bx) 4/22 | 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 |
| MJ1000A02 | GREASE, MOBIL POLYREX EM - 124047 | 0.050 LB |

| Parts List (continued) | | |
|-------------------------------|--|-----------------|
| Part Number | Description | Quantity |
| 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 |
| NP2138LUA | ALUM SUPER-E UL CSA-EEV PREM CC (300SER) | 1.000 EA |
| 40PA1000 | PACKAGING GROUP | 1.000 EA |

AC Induction Motor Performance Data

Record # 66226

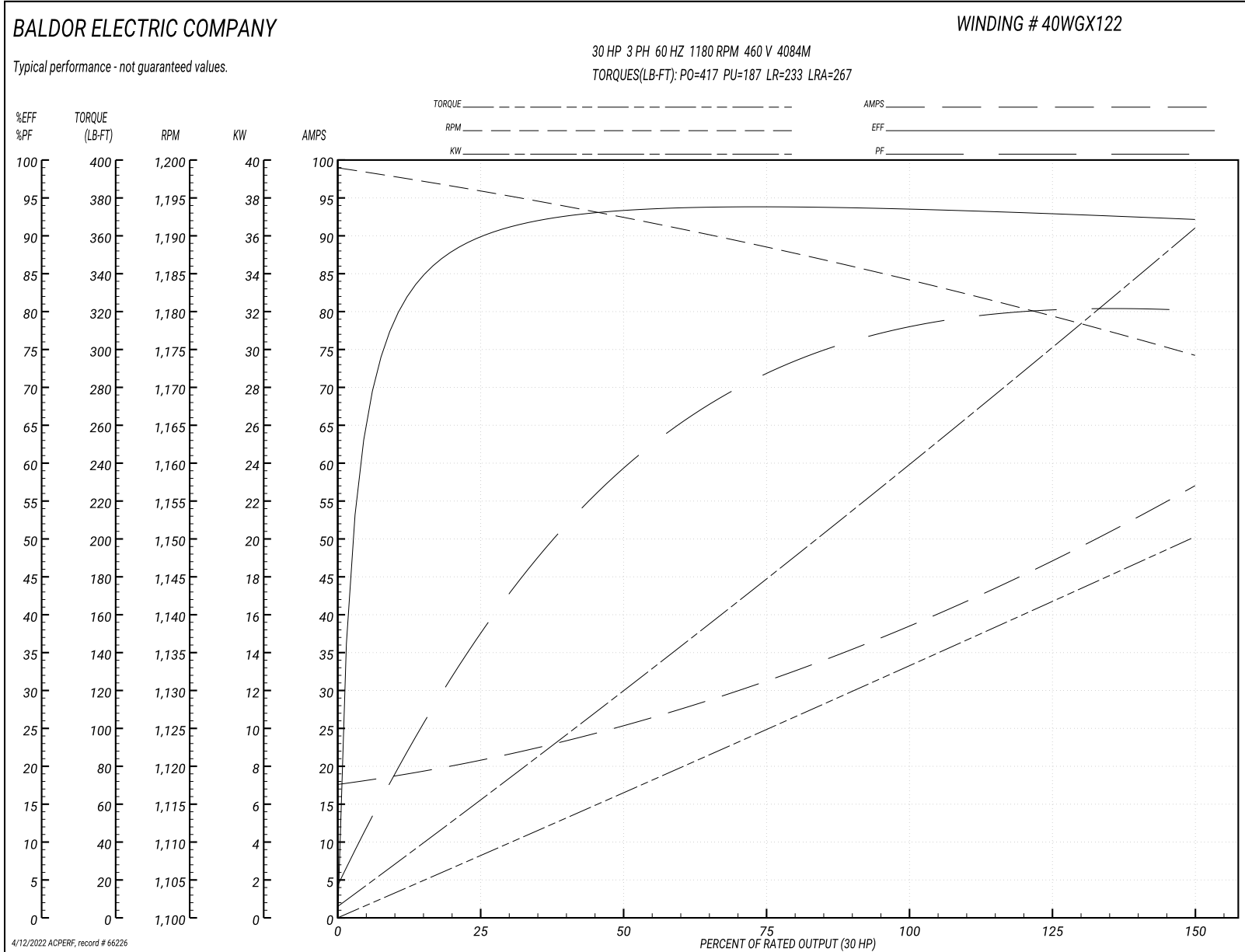
Typical performance - not guaranteed values

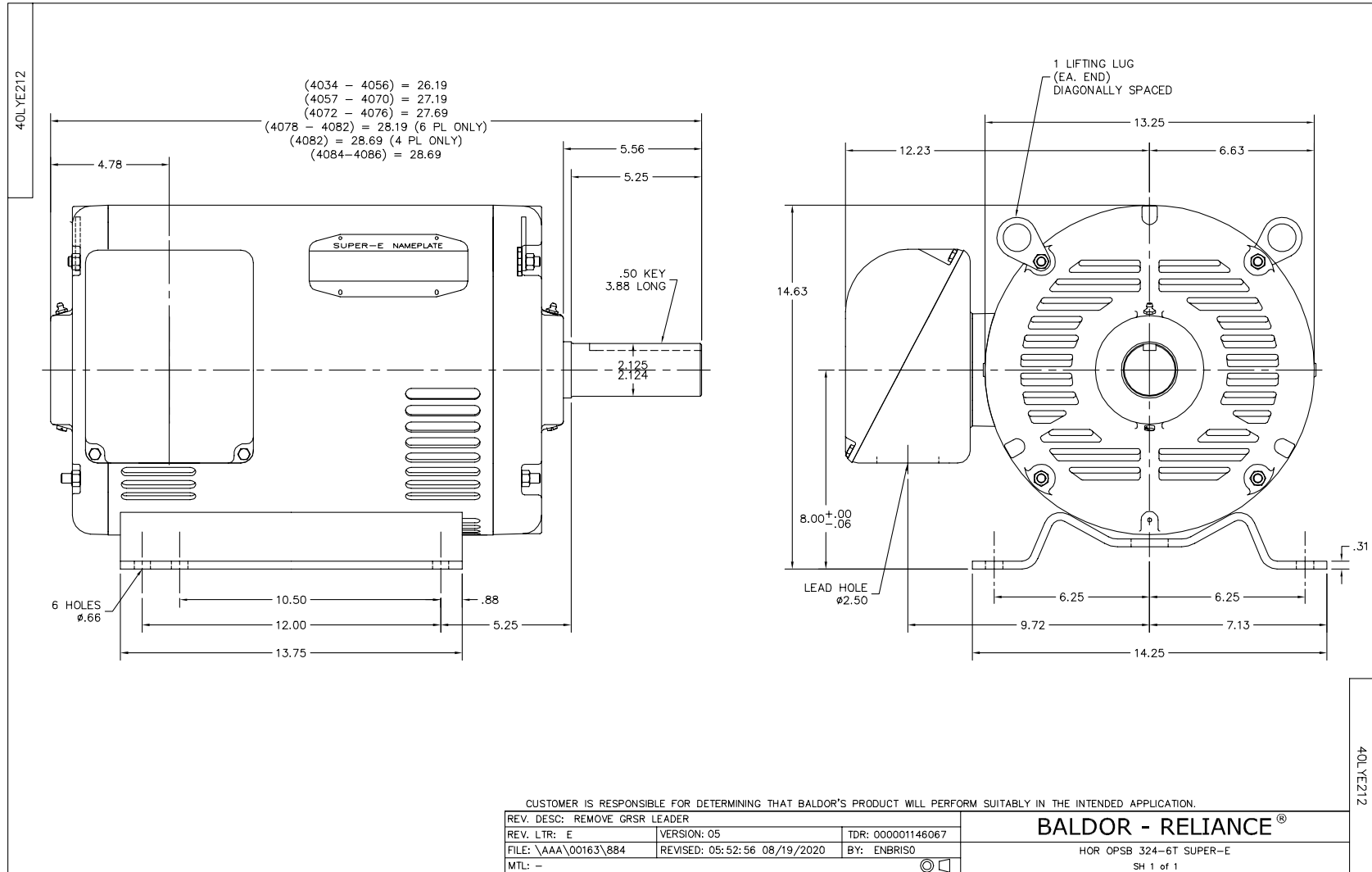
| Winding: 40WGX122-R001 | | Type: 4084M | | Enclosure: OPSB | |
|-------------------------------|-----------------|----------------------------|--|------------------------------|----------|
| Nameplate Data | | | 460 V, 60 Hz: High Voltage Connection | | |
| Rated Output (HP) | 30 | Full Load Torque | 133.3 LB-FT | | |
| Volts | 230/460 | Start Configuration | direct on line | | |
| Full Load Amps | 78/39 | Breakdown Torque | 417 LB-FT | | |
| R.P.M. | 1180 | Pull-up Torque | 187 LB-FT | | |
| Hz | 60 Phase | 3 | Locked-rotor Torque | 233 LB-FT | |
| NEMA Design Code | A | KVA Code | H | Starting Current | 267 A |
| Service Factor (S.F.) | 1.15 | No-load Current | 18.1 A | | |
| NEMA Nom. Eff. | 93.6 | Power Factor | 77 | Line-line Res. @ 25°C | 0.2452 Ω |
| Rating - Duty | 40C AMB-CONT | | Temp. Rise @ Rated Load | 40°C | |
| S.F. Amps | | | Temp. Rise @ S.F. Load | 49°C | |
| | | | Locked-rotor Power Factor | 28.6 | |

Load Characteristics 460 V, 60 Hz, 30 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|------------------------|-----------|-----------|-----------|------------|------------|------------|-------------|
| Power Factor | 39 | 60 | 72 | 77 | 80 | 81 | 79 |
| Efficiency | 89.6 | 93.2 | 93.8 | 93.6 | 92.9 | 92.1 | 93.2 |
| Speed | 1196.1 | 1192.3 | 1188.4 | 1184.2 | 1179.4 | 1174.2 | 1181 |
| Line amperes | 20.2 | 25 | 31.5 | 39 | 47.4 | 56.7 | 44 |

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 |
| 9000D | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

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