

BALDOR® • RELIANCE

Product Information Packet

VEM3581T

1HP,1760RPM,3PH,60HZ,143TC,0519M,TEFC,F1

| Part Detail | | | | | | | | | |
|-------------------|--------------|----------------|-------|----------------|----------|---------------|------------|----|---|
| Revision: | D | Status: | PRD/A | Change #: | | Proprietary: | No | | |
| Type: | AC | Prod. Type: | 0519M | Elec. Spec: | 05WGX122 | CD Diagram: | | | |
| Enclosure: | TEFC | Mfg Plant: | | Mech. Spec: | 05C053 | Layout: | | | |
| Frame: | 143TC | Mounting: | F1 | Poles: | 04 | Created Date: | 08-03-2010 | | |
| Base: | N | Rotation: | R | Insulation: | F | Eff. Date: | 02-04-2013 | | |
| Leads: | 9#18 | Literature: | | Elec. Diagram: | | Replaced By: | | | |
| Nameplate NP1259L | | | | | | | | | |
| CAT.NO. | VEM3581T | | | | | | | | |
| SPEC. | 05C053X122G1 | | | | | | | | |
| HP | 1 | | | | | | | | |
| VOLTS | 208-230/460 | | | | | | | | |
| AMP | 3.1-3/1.5 | | | | | | | | |
| RPM | 1760 | | | | | | | | |
| FRAME | 143TC | HZ | | | 60 | PH | 3 | | |
| SER.F. | 1.15 | CODE | | | L | DES | B | CL | F |
| NEMA-NOM-EFF | 85.5 | PF | | | 71 | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| CC | 010A | USABLE AT 208V | | | 3.1 | | | | |
| DE | 6205 | ODE | | | 6203 | | | | |
| ENCL | TEFC | SN | | | | | | | |
| | | | | | | | | | |

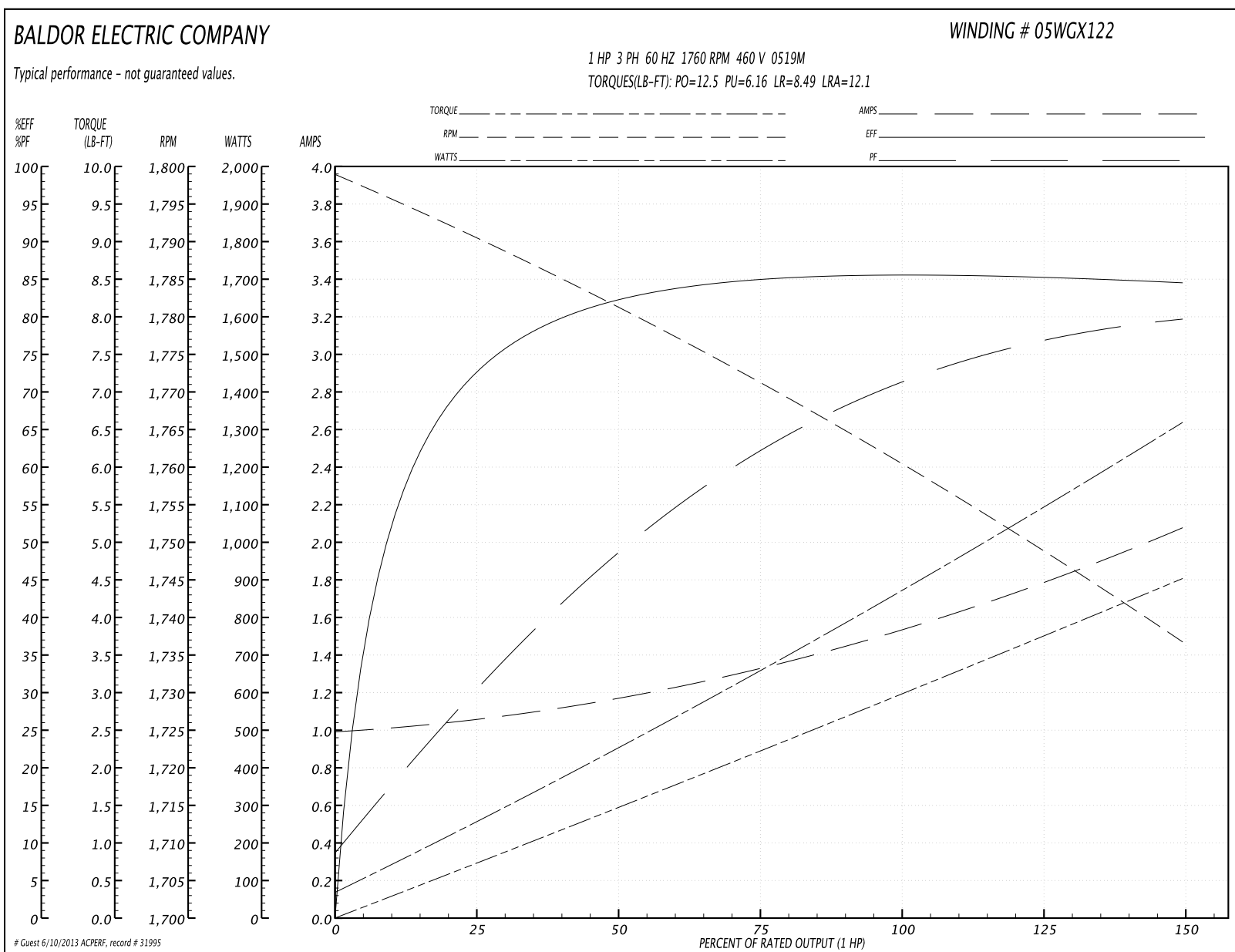
| Parts List | | |
|----------------|------------------------------------------|----------|
| Part Number | Description | Quantity |
| SA201061 | SA 05C053X122G1 | 1.000 EA |
| RA188366 | RA 05C053X122G1 | 1.000 EA |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 EA |
| S/P107-000-001 | SUPER E PROC'S-FS & WS PLTS-POLYREX EM G | 1.000 EA |
| 06CB3000 | CONDUIT BOX CAST | 1.000 EA |
| 06GS1000 | GASKET, CONDUIT BOX | 1.000 EA |
| 51XW2520A12 | SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75 | 2.000 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 |
| HW3001B01 | 003SS CUP WASHER, FOR #8 SCREW | 1.000 EA |
| 35EP1100A02 | FR ENDPLATE, TEFC W/GREASER | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW5100A03SP | WAVY WASHER (W1543-017) | 1.000 EA |
| 35EP1329A01 | PU EP ENCL 143-5TC 205 BRG W/GRSR & STD | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| 51XN1032A20 | 10-32 X 1 1/4 HX WS SL SR | 2.000 EA |
| HA3100A28 | THRUBOLT 10-32 X 8.187 | 4.000 EA |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |
| 35FH4005A02SP | IEC FH W/GREASER - W/AUTOPHERETIC PRIMER | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 06CB3500 | CONDUIT BOX LID - ALUMINUM DIE CAST | 1.000 EA |
| 06GS1001 | GASKET, CONDUIT BOX LID | 1.000 EA |
| HW2501D13SP | KEY, 3/16 SQ X 1.375 | 1.000 EA |
| HA7000A01 | KEY RETAINER 7/8" DIA SHAFT | 1.000 EA |

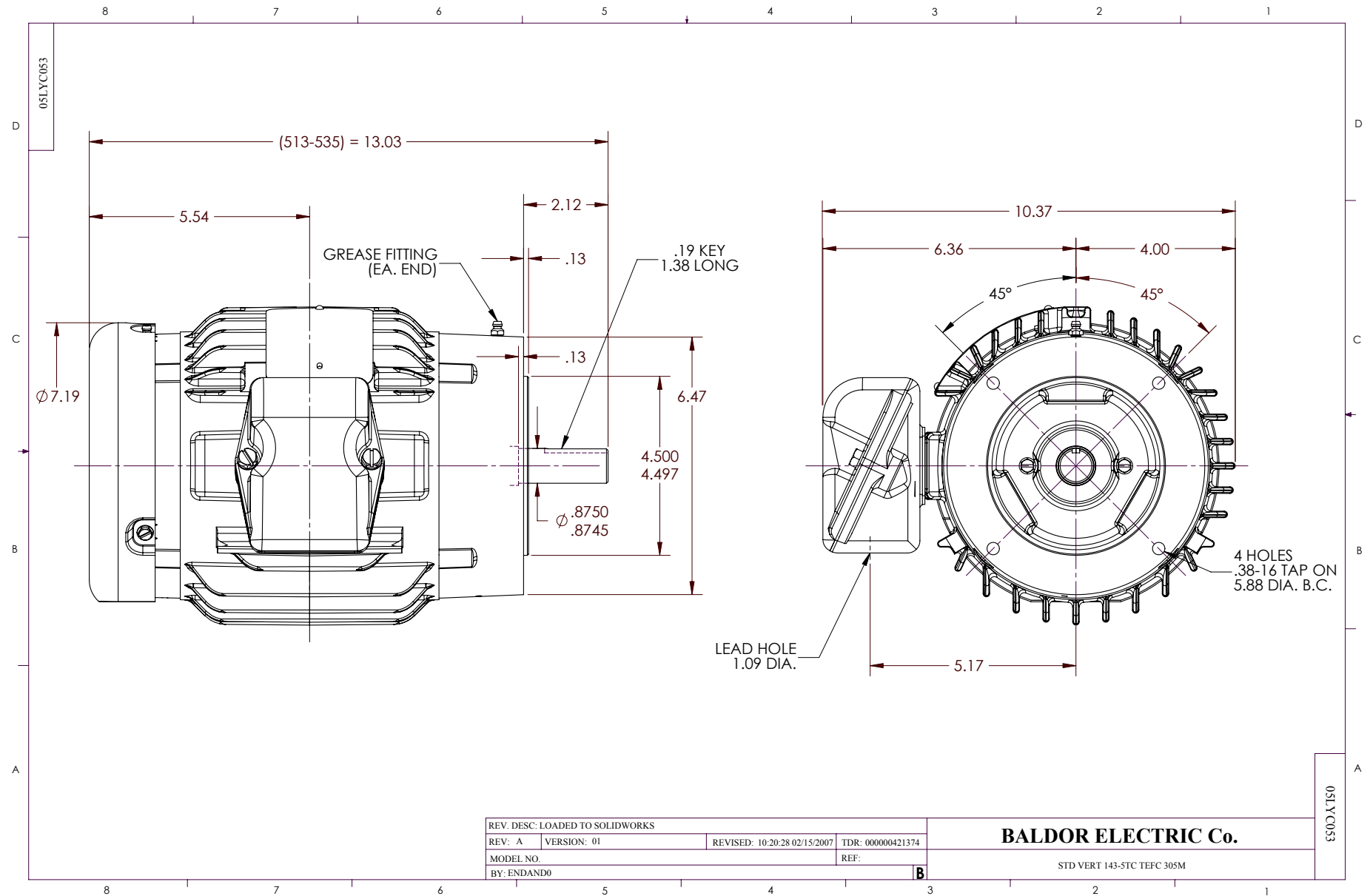
| Parts List (continued) | | |
|------------------------|------------------------------------------|----------|
| Part Number | Description | Quantity |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| MJ1000A75 | GREASE, POLYREX EM EXXON | 0.050 LB |
| MG1000Y03 | WILKO 689.710 GOLD PAINT SUPER E | 0.022 GA |
| LB1125C02 | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 1.000 EA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119) | 1.000 EA |
| NP1259L | ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM | 1.000 EA |
| 36PA1000 | PACK GROUP W/LB5001 | 1.000 EA |
| PK3082 | STYROFOAM CRADLE | 1.000 EA |
| LB1506 | LABEL "AMERICAN MADE" 1.50 X 1.00 | 1.000 EA |

Performance Data at 460V, 60Hz, 1.0HP (Typical performance - Not guaranteed values)

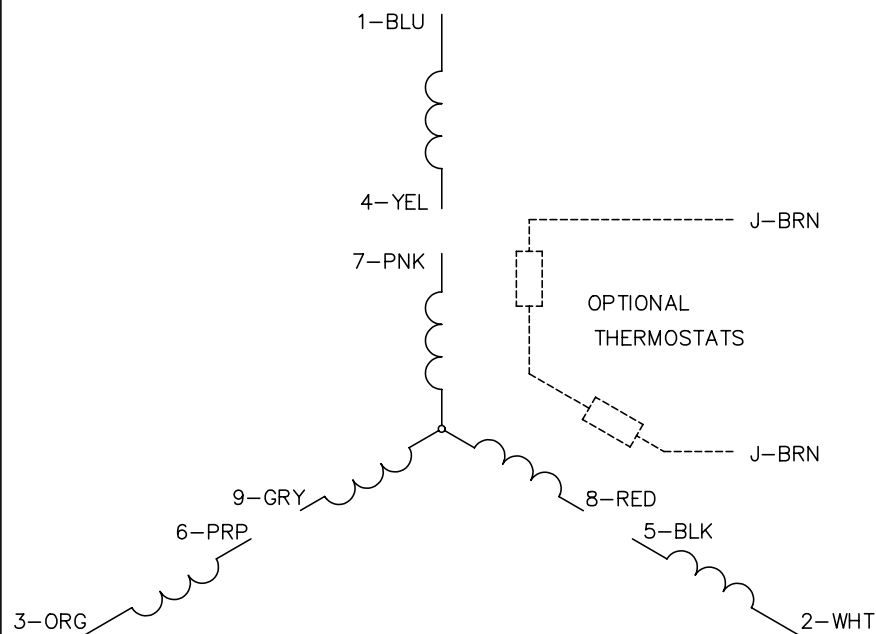
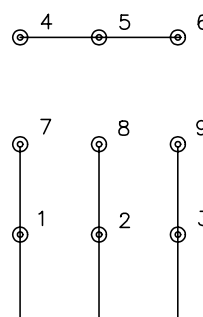
| General Characteristics | | | | | | | |
|--------------------------|---------------------------------|--------|--------|----------------------|--------|------------|--------|
| Full Load Torque: | 2.97 LB-FT | | | Start Configuration: | | DOL | |
| No-Load Current: | 1.0 Amps | | | Break-Down Torque: | | 12.5 LB-FT | |
| Line-line Res. @ 25°C.: | 16.05 Ohms A Ph / 0.0 Ohms B Ph | | | Pull-Up Torque: | | 6.16 LB-FT | |
| Temp. Rise @ Rated Load: | 30 C | | | Locked-Rotor Torque: | | 8.49 LB-FT | |
| Temp. Rise @ S.F. Load: | 36 C | | | Starting Current: | | 12.1 Amps | |
| Load Characteristics | | | | | | | |
| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
| Power Factor: | 31.0 | 49.0 | 62.0 | 71.0 | 77.0 | 80.0 | 75.0 |
| Efficiency: | 72.2 | 82.1 | 84.8 | 85.6 | 85.3 | 84.4 | 85.4 |
| Speed: | 1790.9 | 1781.2 | 1771.5 | 1760.7 | 1749.1 | 1736.6 | 1754.0 |
| Line Amperes: | 1.05 | 1.15 | 1.33 | 1.54 | 1.79 | 2.07 | 1.69 |

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values

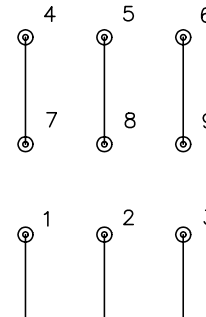




CD0005

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

900000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

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