

BALDOR® • **RELIANCE**

Product Information Packet

VEM3709T-5

7.5HP,3470RPM,3PH,60HZ,213TC,3646M,TEFC

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| Part Detail | | | | | | | | | |
|-------------------|--------------|----------------|-------|----------------|----------|---------------|------------|----|---|
| Revision: | A | Status: | PRD/A | Change #: | | Proprietary: | No | | |
| Type: | AC | Prod. Type: | 3646M | Elec. Spec: | 36WGS478 | CD Diagram: | | | |
| Enclosure: | TEFC | Mfg Plant: | | Mech. Spec: | 36H302 | Layout: | | | |
| Frame: | 213TC | Mounting: | F1 | Poles: | 02 | Created Date: | 05-06-2010 | | |
| Base: | N | Rotation: | R | Insulation: | F | Eff. Date: | 05-02-2012 | | |
| Leads: | 3#16 | Literature: | | Elec. Diagram: | | Replaced By: | | | |
| Nameplate NP1259L | | | | | | | | | |
| CAT.NO. | VEM3709T-5 | | | | | | | | |
| SPEC. | 36H302S478G1 | | | | | | | | |
| HP | 7.5 | | | | | | | | |
| VOLTS | 575 | | | | | | | | |
| AMP | 6.8 | | | | | | | | |
| RPM | 3470 | | | | | | | | |
| FRAME | 213TC | HZ | | | 60 | PH | 3 | | |
| SER.F. | 1.15 | CODE | | | L | DES | A | CL | F |
| NEMA-NOM-EFF | 89.5 | PF | | | 93 | | | | |
| RATING | 40C AMB-CONT | | | | | | | | |
| CC | 010A | USABLE AT 208V | | | | | | | |
| DE | 6307 | ODE | | | 6205 | | | | |
| ENCL | TEFC | SN | | | | | | | |
| | | | | | | | | | |

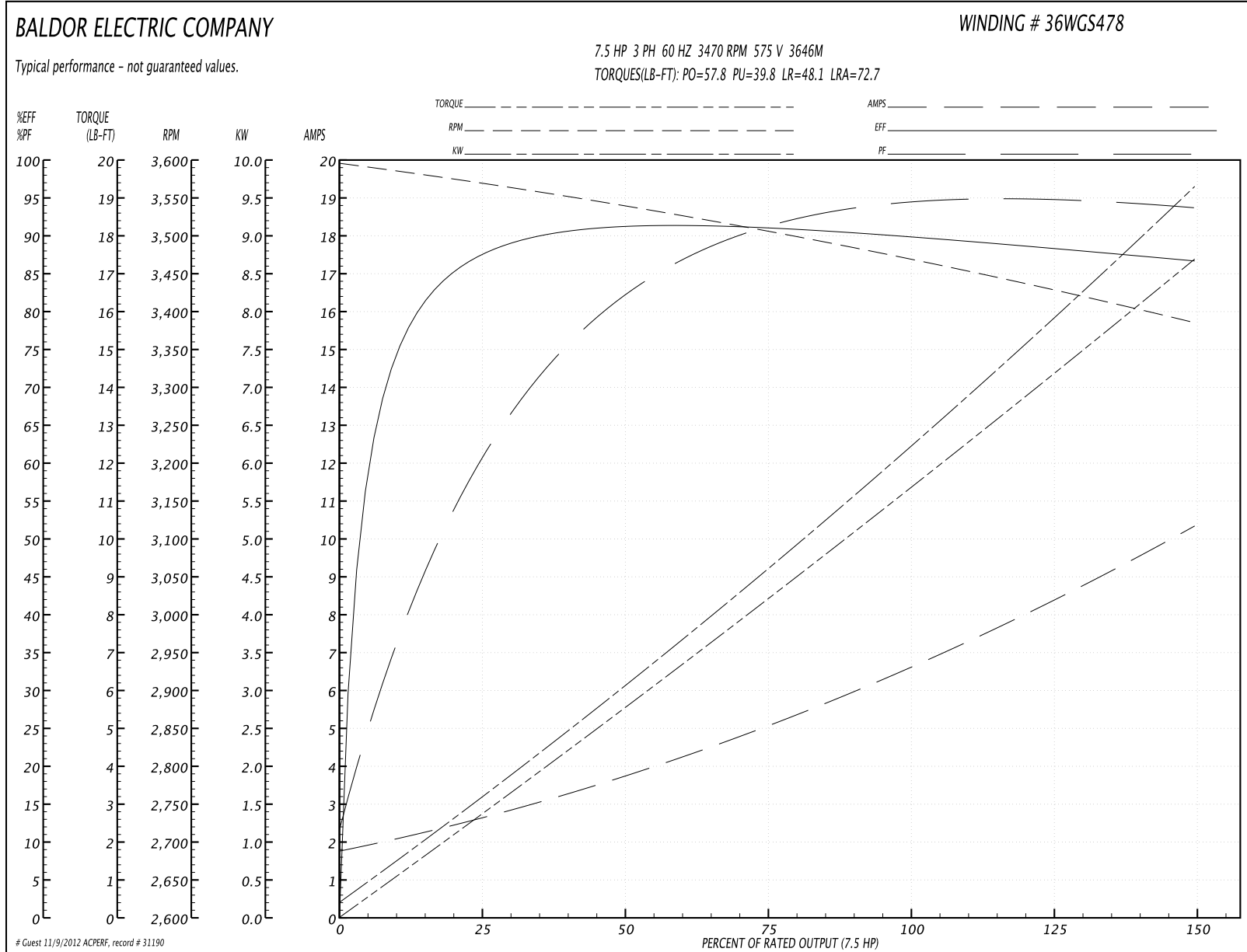
| Parts List | | |
|----------------|--|----------|
| Part Number | Description | Quantity |
| SA194506 | SA 36H302S478G1 | 1.000 EA |
| RA182093 | RA 36H302S478G1 | 1.000 EA |
| S/P107-000-001 | SUPER E PROC'S-FS & WS PLTS-POLYREX EM G | 1.000 EA |
| 36CB3000SP | CONDUIT BOX, CAST | 1.000 EA |
| 36GS1000SP | GASKET-CONDUIT BOX, .06 THICK #SV-330 LE | 1.000 EA |
| 51XB1016A07 | 10-16 X 7/16 HXWSSLD SERTYB | 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 |
| 36EP3104A04 | FR ENDPLATE, MACH | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 EA |
| HW5100A05 | WVY WSHR F/205 & 304 BRGS | 1.000 EA |
| 36EP3305A03 | SPL PU ENDPLATE 182-184TC-ENCL-FOR 307 B | 1.000 EA |
| HW4500A01 | 1641B(ALEMITE)400 UNIV, GREASE FITT | 1.000 EA |
| HW4500A17 | 317400 ALEMITE GREASE RELIEF | 1.000 EA |
| 10XN2520A32 | 1/4 X 2 HEX HEAD CAP SCR, GRADE 2 | 4.000 EA |
| HW1001A25 | LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I | 4.000 EA |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |
| 36FH4009A103 | IEC FH GREASER W/AUTOPHERETIC PRIMER | 1.000 EA |
| 51XW1032A06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD S | 3.000 EA |
| 35CB4514 | 35 LIPPED CB LID | 1.000 EA |
| 36GS1001SP | GASKET, CONDUIT BOX LID, .06 THICK #SV-3 | 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 |

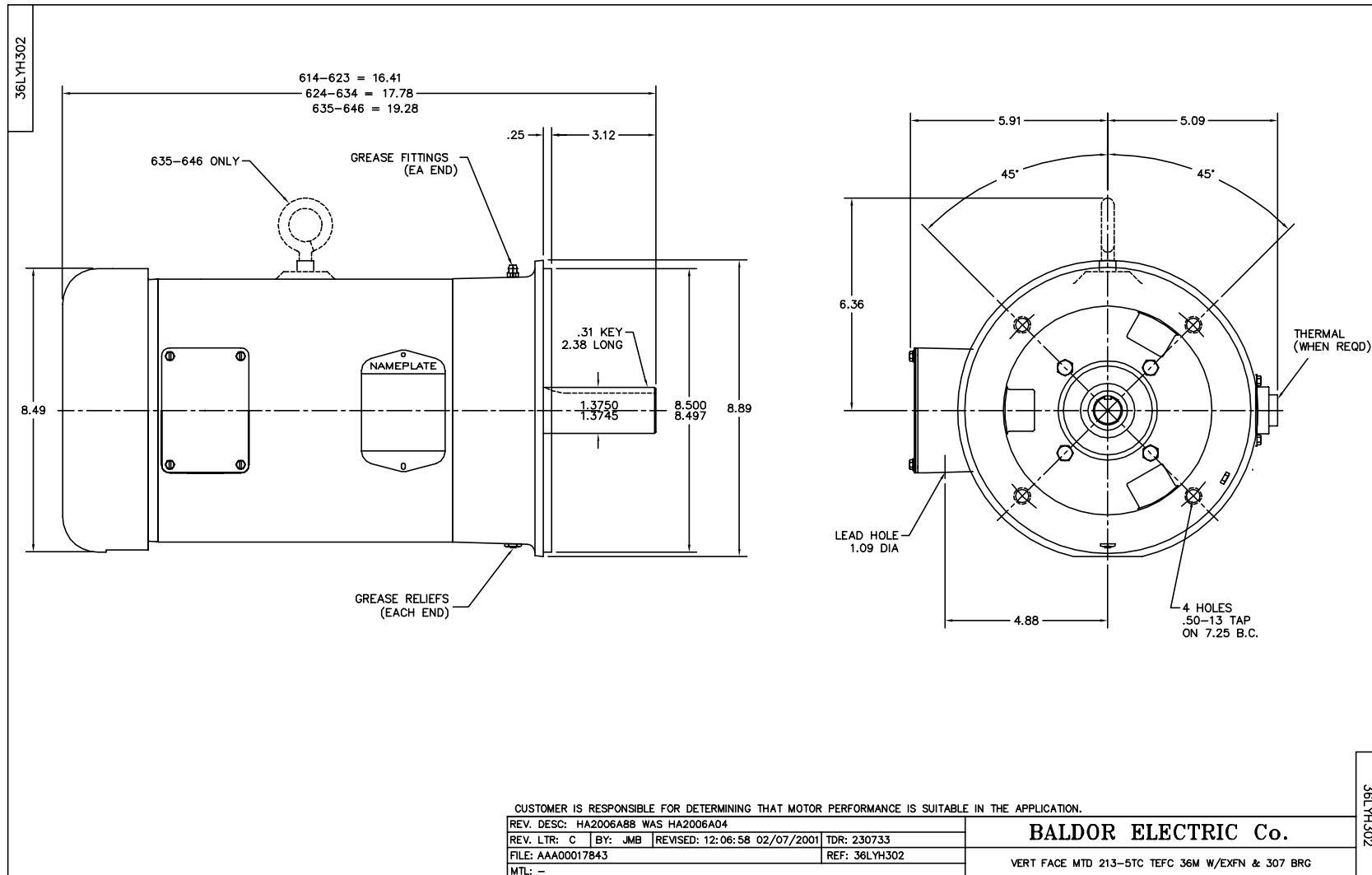
| Parts List (continued) | | |
|------------------------|--|----------|
| Part Number | Description | Quantity |
| HA7000A02 | KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA | 1.000 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| HW3200A01 | 3/8-16X3/4 I-BLT WELDED F/S | 1.000 EA |
| MJ1000A75 | GREASE, POLYREX EM EXXON | 0.050 LB |
| MG1000Y03 | WILKO 689.710 GOLD PAINT SUPER E | 0.022 GA |
| 36FN3000C01SP | EXFN, PLASTIC, 5.25 OD, .912 ID | 1.000 EA |
| LB1115 | LABEL,LIFTING DEVICE | 1.000 EA |
| HA3101A28 | THRUBOLT 1/4-20 X 12.500 OHIO ROD | 4.000 EA |
| LB1119 | WARNING LABEL | 1.000 EA |
| LB1125C02 | SUPER-E (STOCK CTN LABEL SUPER-E WITH FL | 1.000 EA |
| LC0006 | CONNECTION LABEL | 1.000 EA |
| LB1357 | ENERGY GUIDE LABEL (BOX LABEL) | 1.000 SH |
| NP1259L | ALUM SUPER-E UL CSA-EEV CC NEMA PREMIUM | 1.000 EA |
| 36PA1001 | PACKAGING GROUP | 1.000 EA |
| PK3082 | STYROFOAM CRADLE | 1.000 EA |

Performance Data at 575V, 60Hz, 7.5HP (Typical performance - Not guaranteed values)

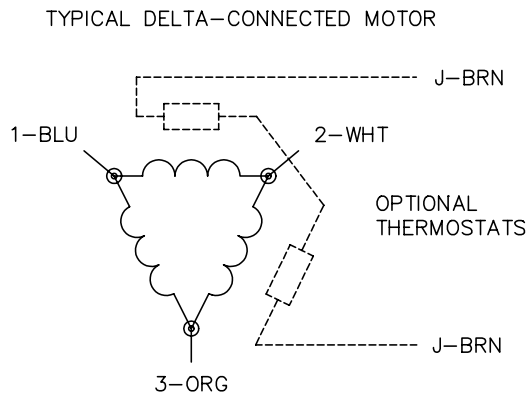
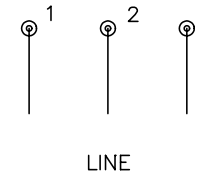
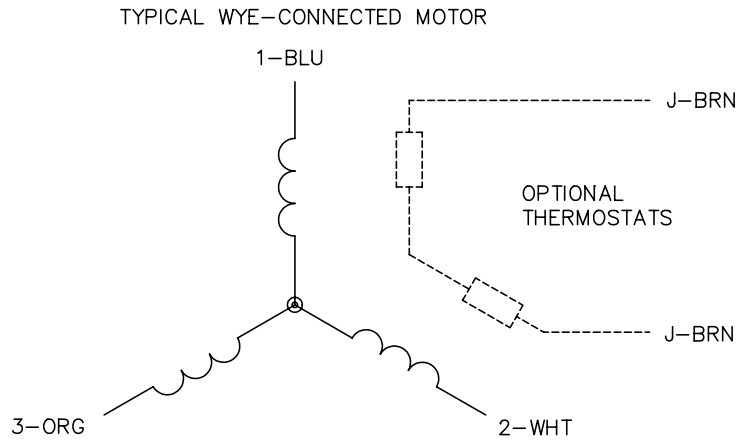
| General Characteristics | | | | | | | |
|--------------------------|--------------------------------|--------|--------|----------------------|------------|--------|--------|
| Full Load Torque: | 11.4 LB-FT | | | Start Configuration: | DOL | | |
| No-Load Current: | 1.86 Amps | | | Break-Down Torque: | 57.8 LB-FT | | |
| Line-line Res. @ 25°C.: | 2.26 Ohms A Ph / 0.0 Ohms B Ph | | | Pull-Up Torque: | 39.8 LB-FT | | |
| Temp. Rise @ Rated Load: | 74 C | | | Locked-Rotor Torque: | 48.1 LB-FT | | |
| Temp. Rise @ S.F. Load: | 93 C | | | Starting Current: | 72.7 Amps | | |
| Load Characteristics | | | | | | | |
| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
| Power Factor: | 64.0 | 85.0 | 90.0 | 93.0 | 94.0 | 94.0 | 94.0 |
| Efficiency: | 86.9 | 90.6 | 91.0 | 90.0 | 88.7 | 86.5 | 89.2 |
| Speed: | 3571.0 | 3539.0 | 3505.0 | 3468.0 | 3429.0 | 3385.0 | 3445.0 |
| Line Amperes: | 2.51 | 3.67 | 5.14 | 6.74 | 8.41 | 10.3 | 7.74 |

Performance Graph at 575V, 60Hz, 7.5HP Typical performance - Not guaranteed values





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NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

| | | | |
|---|---------|------------------------|--------------|
| REV. DESC: REVISE TO SHOW OPTIONAL COLORS | | | |
| REV. LTR: D | BY: JLP | REVISED: 01/21/99 4:02 | TDR: 0171435 |
| 9000D | | FILE: AAA00005141 | MDL: - |
| | | MTL: - | |

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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