

BALDOR® • RELIANCE

Product Information Packet

WALKER INDUSTRIAL PRODUCTS, INC.

EM31116

1HP,1750RPM,3PH,60HZ,56,3520M,ODP,F1,N

| Part Detail | | | | | | | |
|-------------|------|----------------|-------|-------------|----------|---------------|------------|
| Revision: | F | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Prod. Type: | 3520M | Elec. Spec: | 35WGN726 | CD Diagram: | CD0005 |
| Enclosure: | ODP | Mfg Plant: | | Mech. Spec: | 35B011 | Layout: | 35LYB011 |
| Frame: | 56 | Mounting: | F1 | Poles: | 04 | Created Date: | 02-27-2014 |
| Base: | RG | Rotation: | R | Insulation: | F | Eff. Date: | 02-01-2016 |
| Leads: | 9#18 | | | | | Replaced By: | |
| Literature: | | Elec. Diagram: | | | | | |

| Nameplate NP3155L | | | | | | | |
|-------------------|--------------|----------------|------|-----|---|----|---|
| CAT.NO. | EM31116 | | | | | | |
| SPEC. | 35B011N726G1 | | | | | | |
| HP | 1 | | | | | | |
| VOLTS | 208-230/460 | | | | | | |
| AMP | 3-2.9/1.45 | | | | | | |
| RPM | 1750 | | | | | | |
| FRAME | 56 | HZ | 60 | PH | 3 | | |
| SER.F. | 1.15 | CODE | M | DES | B | CL | F |
| F.L. AVG. EFF. | 83.5 | PF | 73 | | | | |
| RATING | 40C AMB-CONT | | | | | | |
| CC | | USABLE AT 208V | | | | | |
| DE | 6205 | ODE | 6203 | | | | |
| ENCL | ODP | SN | | | | | |
| | | | | | | | |

| Parts List | | |
|----------------|--|----------|
| Part Number | Description | Quantity |
| SA277267 | SA 35B011N726G1 | 1.000 EA |
| RA263819 | RA 35B011N726G1 | 1.000 EA |
| S/P107-000-001 | SUPER E PROC'S-FS, WS & CK PLTS | 1.000 EA |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 EA |
| 35CB3007 | 35 CB CASTING W/.88 DIA. LEAD HOLE | 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 |
| 35EP3201A03 | STD FR EP OPEN-203BRG-35L OR M FRAME--LE | 1.000 EA |
| HW5100A03SP | WAVY WASHER (W1543-017) | 1.000 EA |
| 35EP3200A02 | PUEP OPEN 205 BRG | 1.000 EA |
| XY1032A02 | 10-32 HEX NUT DIRECTIONAL SERRATION | 4.000 EA |
| 35CB4521 | 35 LIPPED CB LID (GALV & PHOSPH) | 1.000 EA |
| 51XW0832A07 | 8-32 X .44, TAPTITE II, HEX WSHR SLTD SE | 4.000 EA |
| HW2501D13SP | KEY, 3/16 SQ X 1.375 | 1.000 EA |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 1.000 EA |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| MJ1000A02 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| HA3100A15 | THRUBOLT 10-32 X 8.375 | 4.000 EA |
| MG1000Y03 | MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20, | 0.017 GA |
| LC0005E01 | CONN.DIA./WARNING LABEL (LC0005/LB1119N) | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1400/bx) 11/14 | 1.000 EA |
| NP3155L | ALUM SUPER-E UL CSA CC "SEMS" | 1.000 EA |
| 35PA1066 | PKG GRP, PRINT PK1008A06 | 1.000 EA |

AC Induction Motor Performance Data

Record # 49387 - Typical performance - not guaranteed values

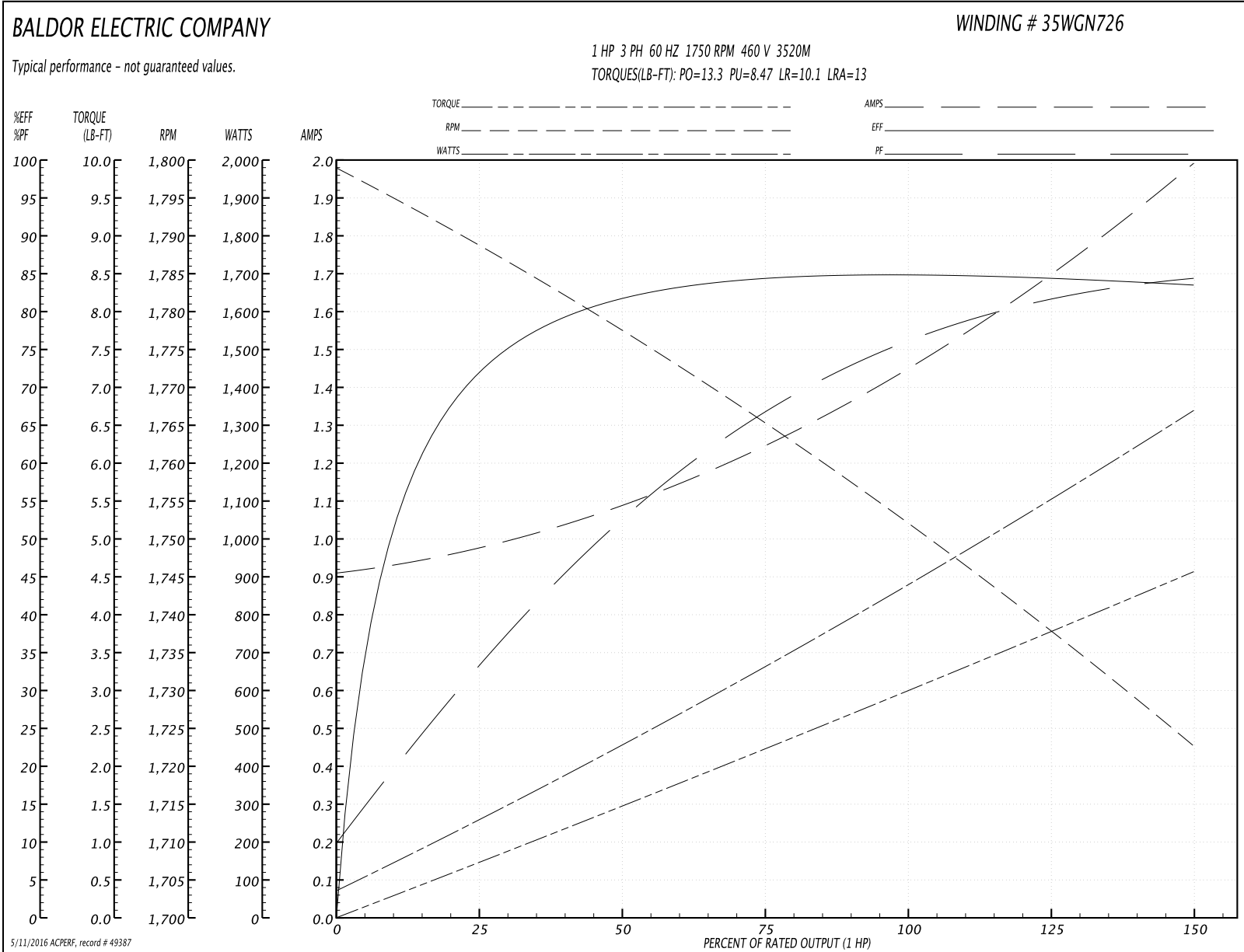
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 35WGN726-R001 | Type: 3520M | Enclosure: OPEN |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|----------------|
| Rated Output (HP) | 1 | | | Full Load Torque | 3.01 LB-FT |
| Volts | 208-230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 3-2.9/1.45 | | | Breakdown Torque | 13.3 LB-FT |
| R.P.M. | 1750 | | | Pull-up Torque | 8.47 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 10.1 LB-FT |
| NEMA Design Code | B | KVA Code | M | Starting Current | 13 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 0.921 A |
| NEMA Nom. Eff. | 83.5 | Power Factor | 73 | Line-line Res. @ 25°C | 16.132 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 28°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 33°C |

Load Characteristics 460 V, 60 Hz, 1 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|-------|--------|--------|--------|--------|--------|------|
| Power Factor | 34 | 53 | 67 | 75 | 81 | 85 | 79 |
| Efficiency | 71.6 | 81.4 | 84.3 | 84.9 | 84.5 | 83.5 | 84.7 |
| Speed | 1789 | 1777.5 | 1764.9 | 1751.9 | 1738.1 | 1722.6 | 1744 |
| Line amperes | 0.963 | 1.08 | 1.25 | 1.46 | 1.71 | 1.98 | 1.61 |

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



AC Induction Motor Performance Data

Record # 49388 - Typical performance - not guaranteed values

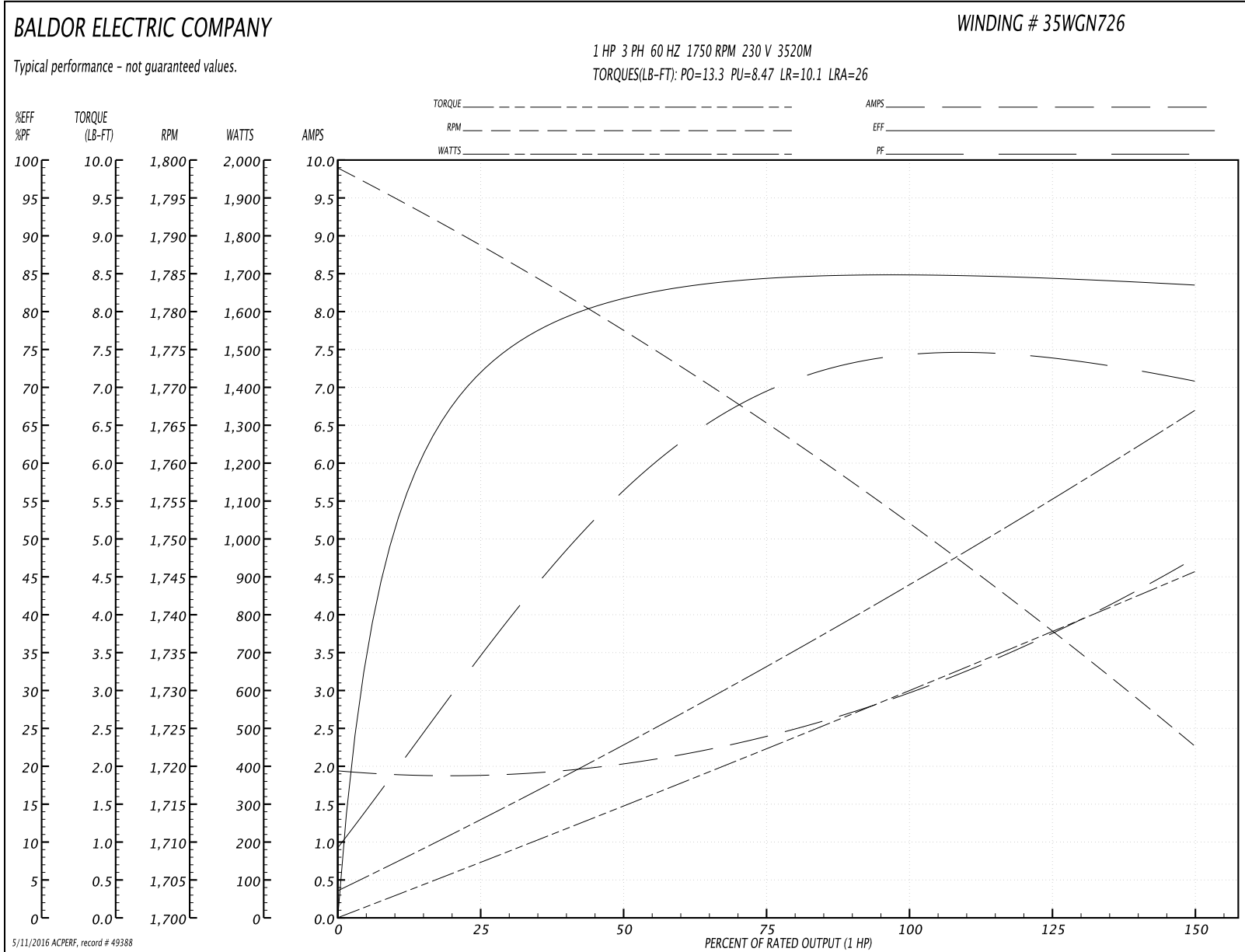
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 35WGN726-R001 | Type: 3520M | Enclosure: OPEN |
|-------------------------------|--------------------|------------------------|

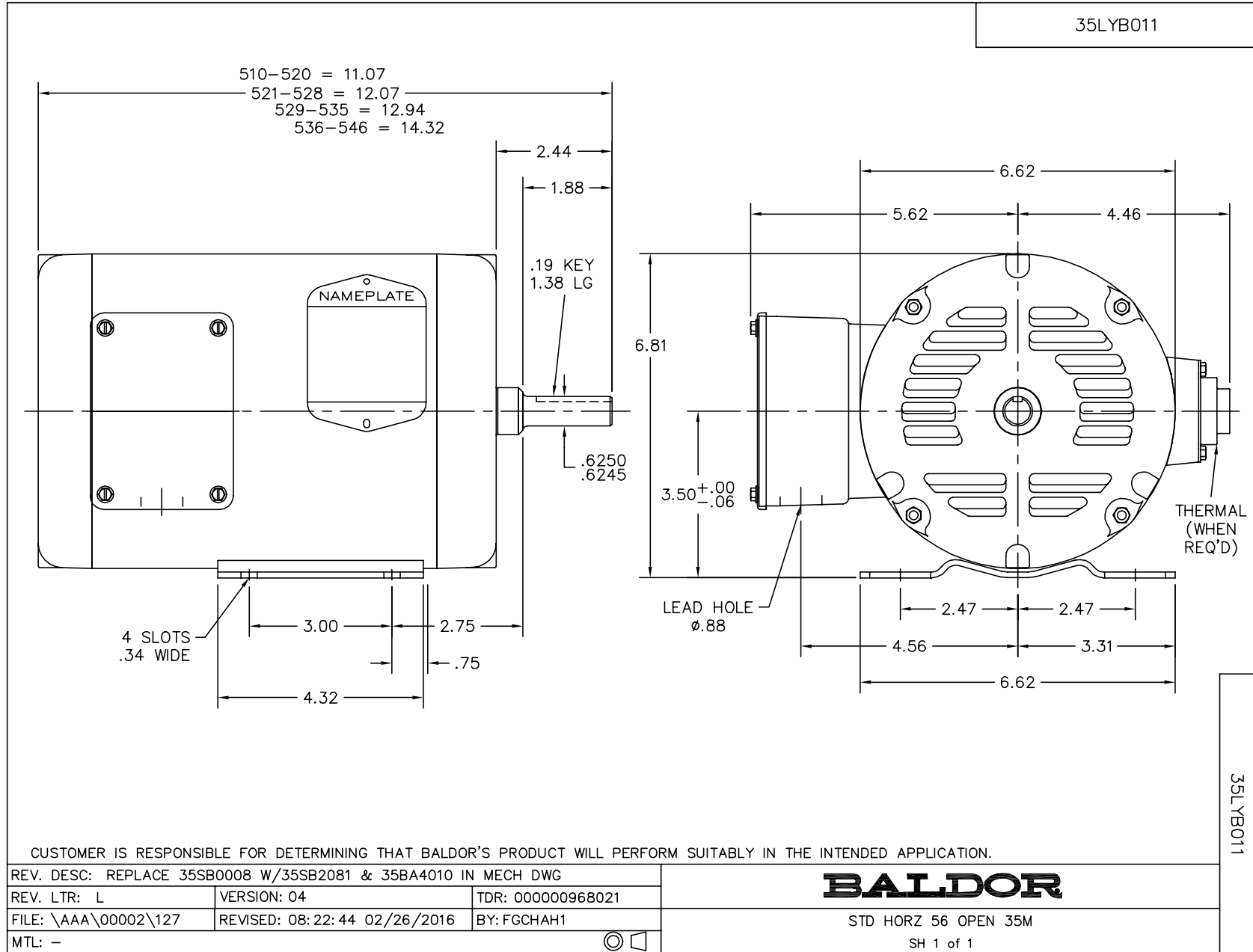
| Nameplate Data | | | | 230 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|----------------|
| Rated Output (HP) | 1 | | | Full Load Torque | 3.01 LB-FT |
| Volts | 208-230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 3-2.9/1.45 | | | Breakdown Torque | 13.3 LB-FT |
| R.P.M. | 1750 | | | Pull-up Torque | 8.47 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 10.1 LB-FT |
| NEMA Design Code | B | KVA Code | M | Starting Current | 26 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 1.842 A |
| NEMA Nom. Eff. | 83.5 | Power Factor | 73 | Line-line Res. @ 25°C | 4.033 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 28°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 33°C |

Load Characteristics 230 V, 60 Hz, 1 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|-------|--------|--------|--------|--------|--------|------|
| Power Factor | 34 | 53 | 67 | 76 | 81 | 68 | 79 |
| Efficiency | 71.6 | 81.4 | 84.3 | 84.9 | 84.5 | 83.5 | 84.7 |
| Speed | 1789 | 1777.5 | 1764.9 | 1751.9 | 1738.1 | 1722.6 | 1744 |
| Line amperes | 1.926 | 2.16 | 2.5 | 2.92 | 3.42 | 4.96 | 3.22 |

Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values





CD0005

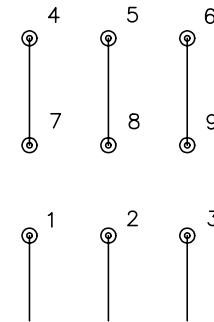


LOW VOLTAGE
(2Y)



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 |
| 90000 | | FILE: AAA00005140 | MDL: - |
| | | MTL: - | |

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005