

BALDOR® • RELIANCE 

Product Information Packet

EHM3154T

1.5HP,1755RPM,3PH,60HZ,145T,3522M,OPSB,F

| Part Detail | | | | | | | |
|-------------|---------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | N | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 35WGM495 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 35VV807 | Layout: | 35LYVV807 | Poles: | 04 | Created Date: | 12-05-2011 |
| Base: | RG | Eff. Date: | 08-22-2017 | Leads: | 9#18 | | |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|--------------------|
| Catalog Number: | EHM3154T | Insulation Class: | F |
| Enclosure: | OPSB | Inverter Code: | Inverter Ready |
| Frame: | 145T | KVA Code: | L |
| Frame Material: | Steel | Lifting Lugs: | No Lifting Lugs |
| Output @ Frequency: | 1.500 HP @ 60 HZ | Locked Bearing Indicator: | No Locked Bearing |
| Synchronous Speed @ Frequency: | 1800 RPM @ 60 HZ | Motor Lead Quantity/Wire Size: | 9 @ 18 AWG |
| Voltage @ Frequency: | 460.0 V @ 60 HZ | Motor Lead Exit: | Ko Box |
| | 230.0 V @ 60 HZ | Motor Lead Termination: | Flying Leads |
| XP Class and Group: | None | Motor Type: | 3522M |
| XP Division: | Not Applicable | Mounting Arrangement: | F1 |
| Agency Approvals: | CSA | Power Factor: | 72 |
| | UR | Product Family: | General Purpose |
| Auxillary Box: | No Auxillary Box | Pulley End Bearing Type: | Ball |
| Auxillary Box Lead Termination: | None | Pulley Face Code: | Standard |
| Base Indicator: | Rigid | Pulley Shaft Indicator: | Standard |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | Rodent Screen: | None |
| Blower: | None | Shaft Extension Location: | Pulley End |
| Current @ Voltage: | 2.200 A @ 460.0 V | Shaft Ground Indicator: | No Shaft Grounding |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| | 4.400 A @ 230.0 V | Shaft Rotation: | Reversible |
| | 4.500 A @ 208.0 V | Shaft Slinger Indicator: | No Slinger |
| Design Code: | B | Speed Code: | Single Speed |
| Drip Cover: | No Drip Cover | Motor Standards: | NEMA |
| Duty Rating: | CONT | Starting Method: | Direct on line |
| Electrically Isolated Bearing: | Not Electrically Isolated | Thermal Device - Bearing: | NONE (OLD) |
| Feedback Device: | NO FEEDBACK | Thermal Device - Winding: | None |
| Front Face Code: | Standard | Vibration Sensor Indicator: | No Vibration Sensor |
| Front Shaft Indicator: | None | Winding Thermal 1: | None |
| Heater Indicator: | No Heater | Winding Thermal 2: | None |

| Nameplate NP2094E06B03 | |
|------------------------|--------------------|
| CAT.NO. | EHM3154T |
| SPEC. | 35VV807M495G1 |
| HP | 1.5 |
| VOLTS | 230/460 |
| AMPS | 4.4/2.2 |
| RPM | 1755 |
| FRAME | 145T |
| | HZ 60 |
| | PH 3 |
| SER.F. | 1.15 |
| | CODE L |
| | DES B |
| | CL F |
| NEMA-NOM-EFF | 86.5 |
| | PF 72 |
| RATING | 40C AMB-CONT |
| CC | 010A |
| | USABLE AT 208V 4.5 |
| DE | 6205 |
| | ODE 6203 |
| AUTO | N |
| | MANUAL N |
| | NONE Y |
| ENCL | OPSB |
| | SN |
| BLANK | |

| Parts List | | |
|-------------|--|----------|
| Part Number | Description | Quantity |
| SA235245 | SA 35VV807M495G1 | 1.000 EA |
| RA222207 | RA 35VV807M495G1 | 1.000 EA |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 EA |
| 35CB4004A17 | SHEET METAL KOBX 35 (STAMPED) 35CB4004 L | 1.000 EA |
| 51XT1032A04 | 10-32X1/4 HX WA SL SR TYT (F/S) | 4.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| HW3001B01 | BRASS CUP WASHER, FOR #10 SCREW | 1.000 EA |
| 35EP3209B00 | MASTER ODE,203 BRG,GRSR,RLF | 1.000 EA |
| HW4500A19 | 1/4-28X1/4 SLOTTED PLUG F/S | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 EA |
| 35EP3210D00 | MASTER DE,205 BRG,GRSR,STD SH,AEGIS HALF | 1.000 EA |
| 91XN0540J08 | SCREW, 5-40 X 1/2", FHC, AS | 2.000 EA |
| HW4500A19 | 1/4-28X1/4 SLOTTED PLUG F/S | 1.000 EA |
| HW4500A20 | 1/8NPT SL PIPE PLUG | 1.000 EA |
| XY1032A02 | 10-32 HEX NUT DIRECTIONAL SERRATION | 4.000 EA |
| 35CB4509 | BOX LID MODEL 35 FOR 35CB4004-GALV & PHO | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 4.000 EA |
| HW2501D13 | KEY, 3/16 SQ X 1.375 | 1.000 EA |
| HA7000A01 | KEY RETAINER 7/8" DIA SHAFT | 1.000 EA |
| HA6362ZP | LIFTING LUG FOR 36 FRAME MOTORS. | 2.000 EA |
| MJ1000A02 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| MG1000G27 | MED CHARCOAL METALLIC GREY 400-0096 | 0.017 GA |
| HA3100A17 | THRUBOLT 10-32 X 9.000 | 4.000 EA |

| Parts List (continued) | | |
|-------------------------------|--|-----------------|
| Part Number | Description | Quantity |
| 35AD2005A01 | BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F. | 2.000 EA |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 EA |
| NP2094E06B03 | NP LABEL W/BARCODE (PREM EFF HVAC MTR) | 1.000 EA |
| 35PA1066 | PKG GRP, PRINT PK1008A06 | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 5/18 | 1.000 EA |
| PE-0000001 | ZRTG PE ASSEMBLY | 1.000 EA |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 EA |

AC Induction Motor Performance Data

Record # 32593 - Typical performance - not guaranteed values

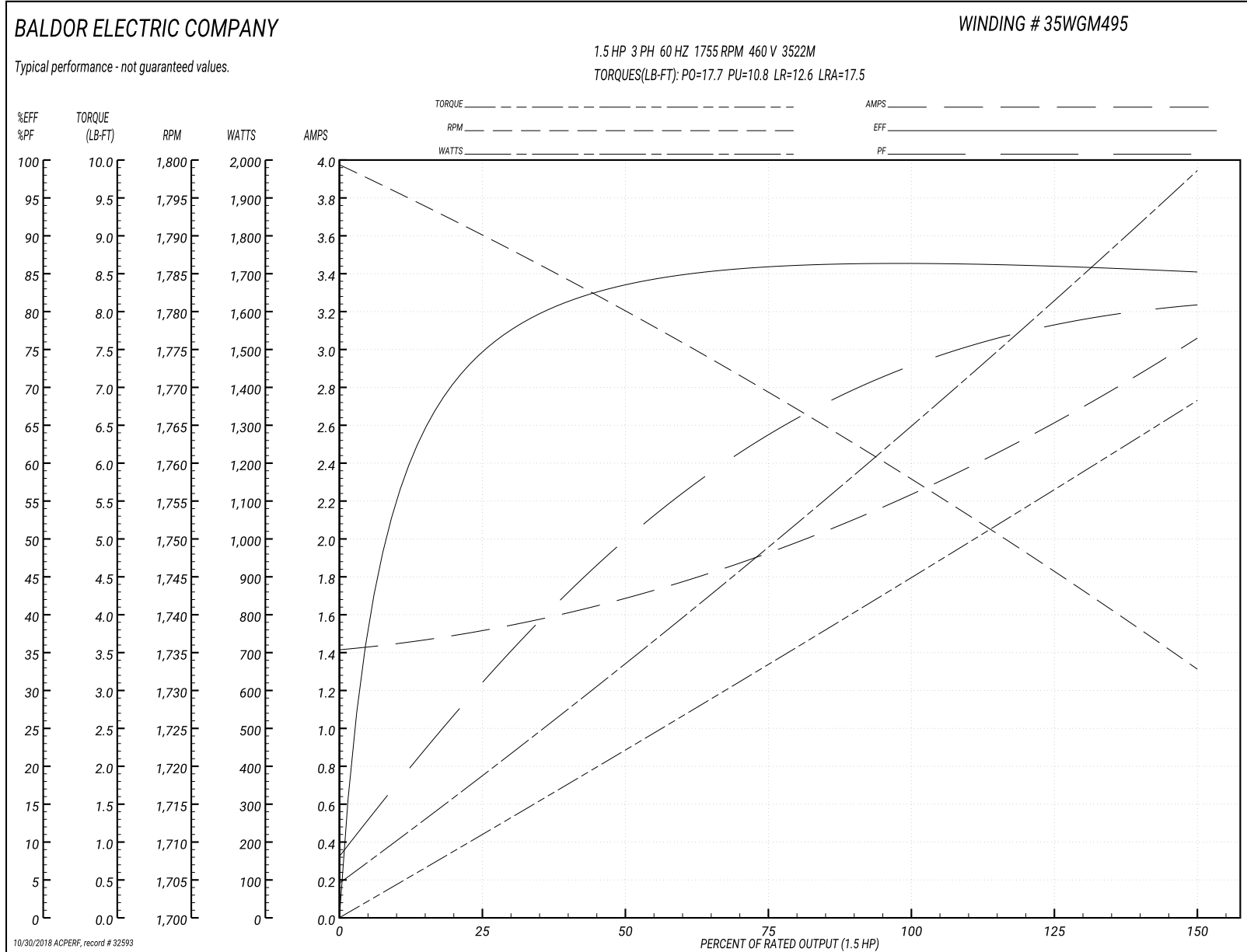
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 35WGM495-R001 | Type: 3522M | Enclosure: OPSB |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|----------------|
| Rated Output (HP) | 1.5 | | | Full Load Torque | 4.46 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 4.50/2.25 | | | Breakdown Torque | 17.7 LB-FT |
| R.P.M. | 1755 | | | Pull-up Torque | 10.8 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 12.6 LB-FT |
| NEMA Design Code | B | KVA Code | L | Starting Current | 17.5 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 1.43 A |
| NEMA Nom. Eff. | 86.5 | Power Factor | 72 | Line-line Res. @ 25°C | 10.73 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 34°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 40°C |

Load Characteristics 460 V, 60 Hz, 1.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|--------|--------|--------|--------|--------|--------|------|
| Power Factor | 32 | 50 | 63 | 72 | 78 | 81 | 76 |
| Efficiency | 74.7 | 83.5 | 86 | 86.6 | 86.3 | 85.3 | 86.4 |
| Speed | 1789.9 | 1780.2 | 1769.2 | 1758.4 | 1746.3 | 1732.6 | 1751 |
| Line amperes | 1.5 | 1.67 | 1.93 | 2.24 | 2.61 | 3.05 | 2.46 |

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 60670 - Typical performance - not guaranteed values

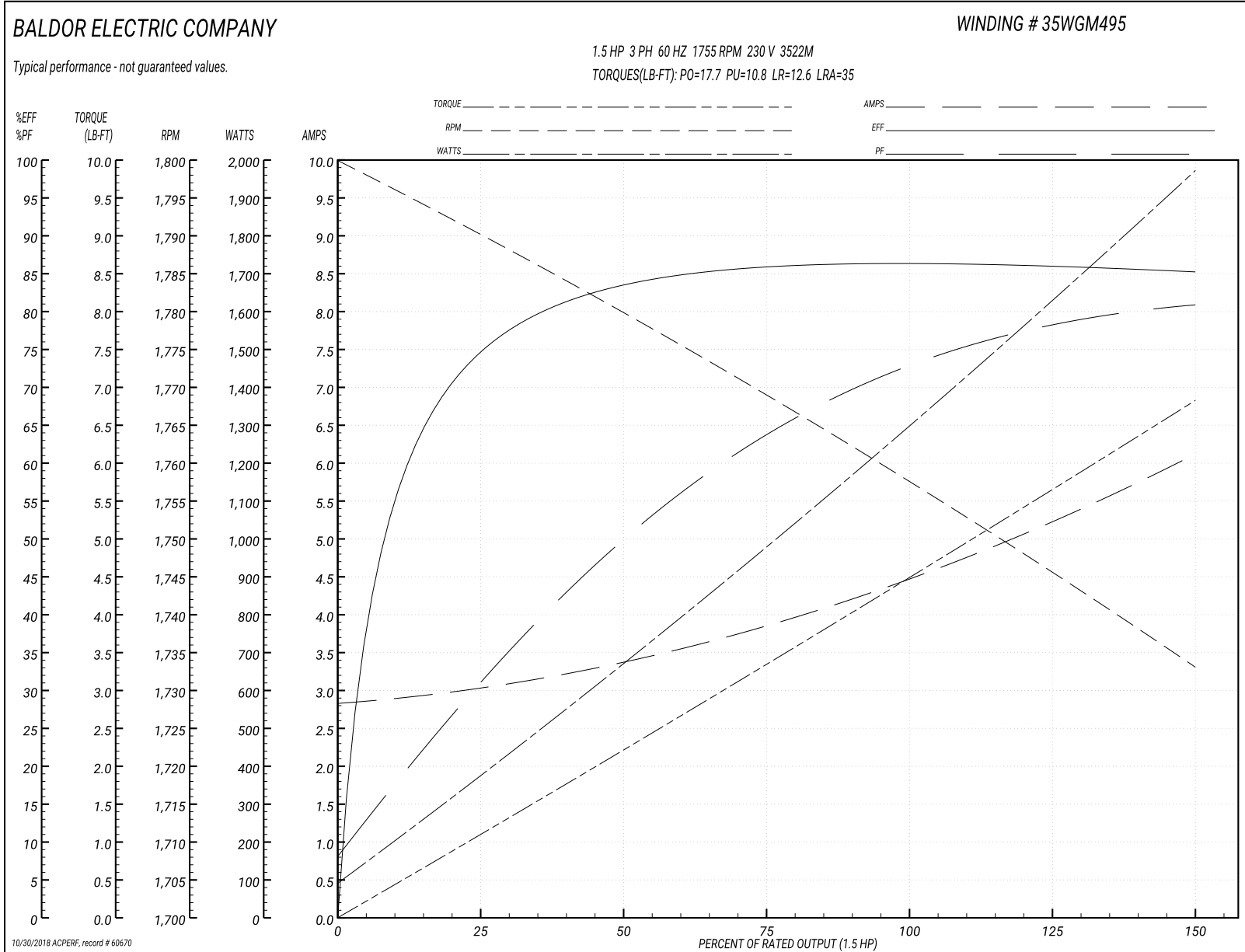
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|-------------------------------|--------------------|------------------------|
| Winding: 35WGM495-R001 | Type: 3522M | Enclosure: OPSB |
|-------------------------------|--------------------|------------------------|

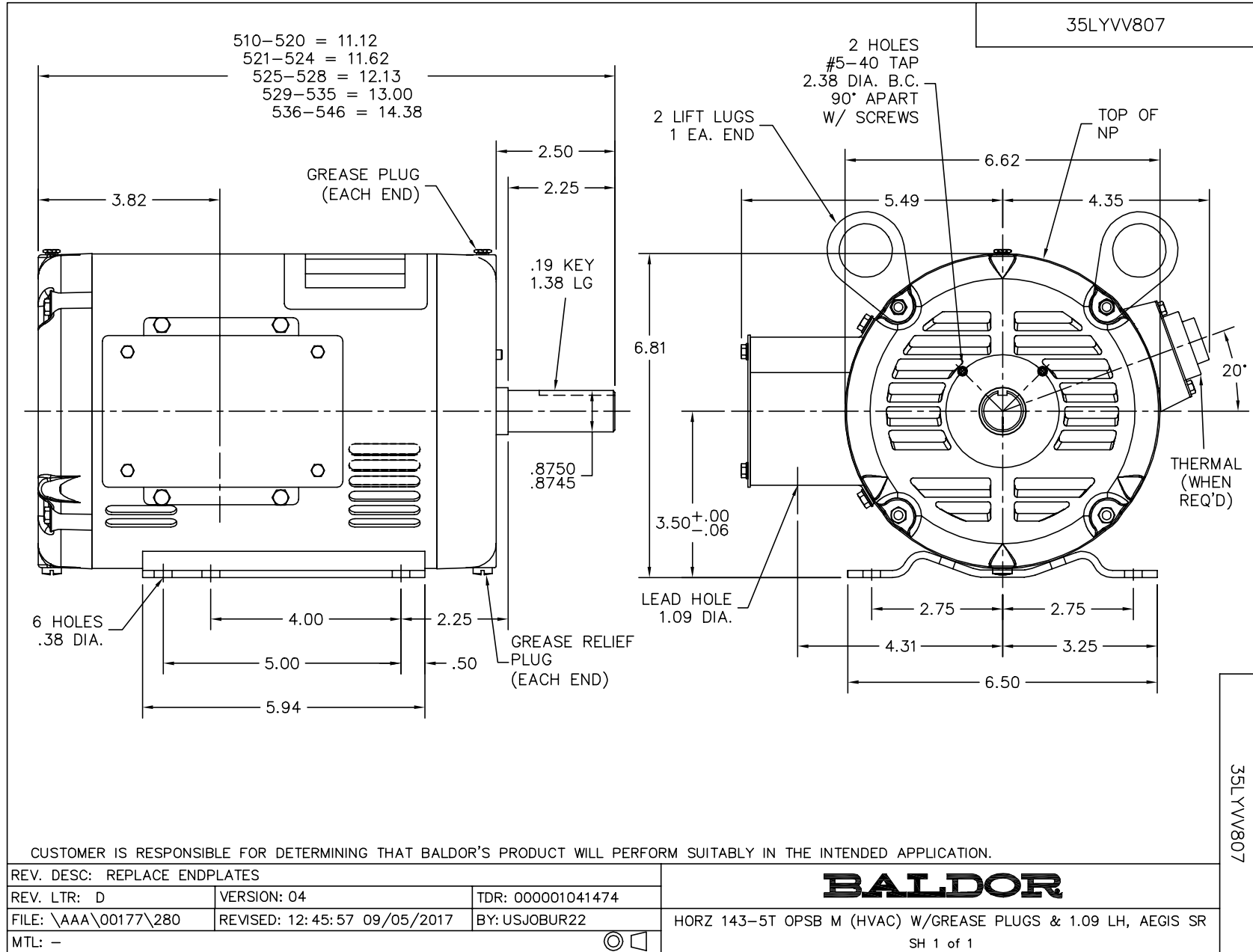
| Nameplate Data | | | | 230 V, 60 Hz: Low Voltage Connection | |
|-----------------------|--------------|--------------|----|---|-------------------------|
| Rated Output (HP) | 1.5 | | | Full Load Torque | 4.46 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 4.4/2.2 | | | Breakdown Torque | 17.7 LB-FT |
| R.P.M. | 1755 | | | Pull-up Torque | 10.8 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 12.6 LB-FT |
| NEMA Design Code | B | KVA Code | L | Starting Current | 35 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 2.86 A |
| NEMA Nom. Eff. | 86.5 | Power Factor | 72 | Line-line Res. @ 25°C | 2.59 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 34°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 40°C |
| | | | | Locked-rotor Power Factor | 52.5 |
| | | | | Rotor inertia | 0.13 LB-FT ² |

Load Characteristics 230 V, 60 Hz, 1.5 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 32 | 50 | 63 | 72 | 78 | 81 | 76 |
| Efficiency | 74.7 | 83.3 | 85.9 | 86.5 | 86.1 | 85.2 | 86.3 |
| Speed | 1790 | 1780 | 1769 | 1758 | 1746 | 1733 | 1751 |
| Line amperes | 3 | 3.34 | 3.86 | 4.48 | 5.22 | 6.1 | 4.92 |

Performance Graph at 230V, 60Hz, 1.5HP Typical performance - Not guaranteed values

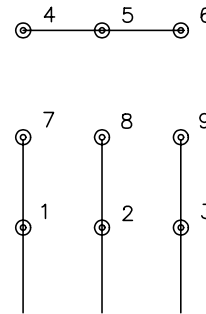




CD0005

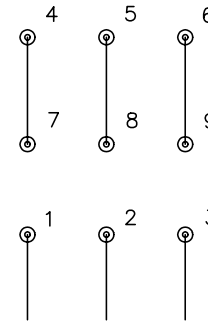


LOW VOLTAGE
(2Y)



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

CD0005