

BALDOR® • RELIANCE 

Product Information Packet

VEWDM3558

2HP,1755RPM,3PH,60HZ,56C,3528M,TEFC,F1,N

| Part Detail | | | | | | | |
|-------------|--------|-------------|------------|-------------|--------|---------------|------------|
| Revision: | L | Status: | PRD/A | Change #: | | Proprietary: | No |
| Type: | AC | Elec. Spec: | 35WGN909 | CD Diagram: | CD0005 | Mfg Plant: | |
| Mech. Spec: | 35S596 | Layout: | 35LYS596 | Poles: | 04 | Created Date: | 06-21-2013 |
| Base: | N | Eff. Date: | 06-13-2018 | Leads: | 9#18 | | Y |

| Specs | | | |
|---------------------------------|-------------------------|--------------------------------|-----------------|
| Catalog Number: | VEWDM3558 | Insulation Class: | F |
| Enclosure: | TEFC | Inverter Code: | Inverter Ready |
| Frame: | 56C | KVA Code: | L |
| Frame Material: | Steel | Lifting Lugs: | No Lifting Lugs |
| Output @ Frequency: | 2.000 HP @ 60 HZ | Locked Bearing Indicator: | 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: | 3528M |
| XP Division: | Not Applicable | Mounting Arrangement: | F1 |
| Agency Approvals: | UR | Power Factor: | 75 |
| | CSA EEV | Product Family: | Wash Down |
| | CSA | Pulley End Bearing Type: | Sealed Bearing |
| Auxillary Box: | No Auxillary Box | Pulley Face Code: | C-Face |
| Auxillary Box Lead Termination: | None | Pulley Shaft Indicator: | Standard |
| Base Indicator: | No Mounting | Rodent Screen: | None |
| Bearing Grease Type: | Polyrex EM (-20F +300F) | RoHS Status: | ROHS COMPLIANT |
| Blower: | None | Shaft Extension Location: | Pulley End |

| | | | |
|---------------------------------------|---------------------------|------------------------------------|---------------------|
| Current @ Voltage: | 2.900 A @ 460.0 V | Shaft Ground Indicator: | No Shaft Grounding |
| | 5.800 A @ 230.0 V | Shaft Rotation: | Reversible |
| | 6.600 A @ 208.0 V | Shaft Slinger Indicator: | Shaft 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 NP1669L | | | | | | | | | | |
|-------------------|--------------|--|------|----|----------------|------|--|-------|----|---|
| CAT.NO. | VEWDM3558 | | | | | | | | | |
| SPEC. | 35S596N909G1 | | | | | | | | | |
| HP | 2 | | | | | | | | | |
| VOLTS | 230/460 | | | | | | | | | |
| AMP | 5.8/2.9 | | | | | | | | | |
| RPM | 1755 | | | | | | | | | |
| FRAME | 56C | | | | HZ | 60 | | | PH | 3 |
| SER.F. | 1.15 | | CODE | L | DES | B | | CLASS | F | |
| NEMA-NOM-EFF | 86.5 | | PF | 75 | | | | | | |
| RATING | 40C AMB-CONT | | | | | | | | | |
| CC | 010A | | | | USABLE AT 208V | | | 6.6 | | |
| DE | 6205 | | | | ODE | 6203 | | | | |
| ENCL | TEFC | | SN | | | | | | | |
| BLANK | | | | | | | | | | |

| Parts List | | |
|---------------|--|----------|
| Part Number | Description | Quantity |
| SA265091 | SA 35S596N909G1 | 1.000 EA |
| RA251795 | RA 35S596N909G1 | 1.000 EA |
| 34FN3002B01 | EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ | 1.000 EA |
| NS2512A01 | INSULATOR, CONDUIT BOX X | 1.000 EA |
| 35CB3008A01W | 35 CB .50 NPT @ 6, MACH WHITE EPOXY | 1.000 EA |
| 35GS1040 | 35 MOLDED GASKET W/LIP, LEAD SEAL, | 1.000 EA |
| 51XB1016A08 | 10-16X 1/2HXWSSLD SERTYB | 2.000 EA |
| 11XW1032G06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 1.000 EA |
| 35EP3122B00W | MASTER ODE,203 BRG,.683SH,.125NPT DRNS,F | 1.000 EA |
| HW4072A01 | BLACK DRAIN PLUG FOR .125 NPT | 3.000 EA |
| HW5100A03 | WAVY WASHER (W1543-017) | 1.000 EA |
| 35EP3307E00W | MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C | 1.000 EA |
| HW4072A01 | BLACK DRAIN PLUG FOR .125 NPT | 3.000 EA |
| HW4600B49 | SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB | 1.000 EA |
| 12XN1032S20 | 10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL | 2.000 EA |
| 51XB1214A16 | 12-14X1.00 HXWSSLD SERTYB | 1.000 EA |
| 35FH4005A32SP | IEC FH NO GRSR W/3 HOLES - PRIMED | 1.000 EA |
| 11XW1032S06 | 10-32 X .38, TAPTITE II, HEX WSHR SLTD U | 3.000 EA |
| 35CB4522 | 35 LIPPED CB LID PRIMED | 1.000 EA |
| 35GS1030A02 | 35 GS FOR CB LID - WHITE NEOPRENE | 1.000 EA |
| 59XW0832S07 | TAPTITE II,HEX WSHR UNSLTD SER,410 S.S., | 4.000 EA |
| HW4600B39SP | V-RING SLINGER 0.550 X 0.790 X .18 VITON | 1.000 EA |
| HW4600B46 | V-RING SLINGER 0.875 X 1.420 X .24 VITON | 1.000 EA |
| HW2502D13 | SS KEY, 3/16 SQ X 1.375 | 1.000 EA |

| Parts List (continued) | | |
|------------------------|---|----------|
| Part Number | Description | Quantity |
| HA7000A04 | KEY RETAINER 0.625 DIA SHAFTS | 1.000 EA |
| MJ5001A27 | 32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL | 0.001 QT |
| 85XU0407S04 | 4X1/4 U DRIVE PIN STAINLESS | 2.000 EA |
| LB1164 | LABEL,WARNING AND DRAIN | 1.000 EA |
| HA5027A02 | HA4054 T-DRAIN X2 BAGGED WITH LABEL | 1.000 EA |
| MJ1000A02 | GREASE, POLYREX EM EXXON (USe 4824-15A) | 0.050 LB |
| MG1025Z02 | ACTIVATOR WILKOFAS 060.02HF | 0.010 GA |
| MG1025W01 | WILKOFAS 781.01, SIGNAL WHITE #9003 | 0.017 GA |
| HA3100S07 | THRUBOLT 10-32 X 8.375 SS | 4.000 EA |
| LC0005 | CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING | 1.000 EA |
| NP1669L | SS WD SUPER-E UL CSA-EEV PREM REV MTG | 1.000 EA |
| 35PA1066 | PKG GRP, PRINT PK1008A06 | 1.000 EA |
| PK3082 | STYROFOAM CRADLE | 1.000 EA |
| MN416A01 | TAG-INSTAL-MAINT no wire (1200/bx) 5/18 | 1.000 EA |
| FE-0000001 | ZRTG FE ASSEMBLY | 1.000 EA |
| PE-0000002 | ZRTG PE ASSEMBLY | 1.000 EA |

AC Induction Motor Performance Data

Record # 53344 - Typical performance - not guaranteed values

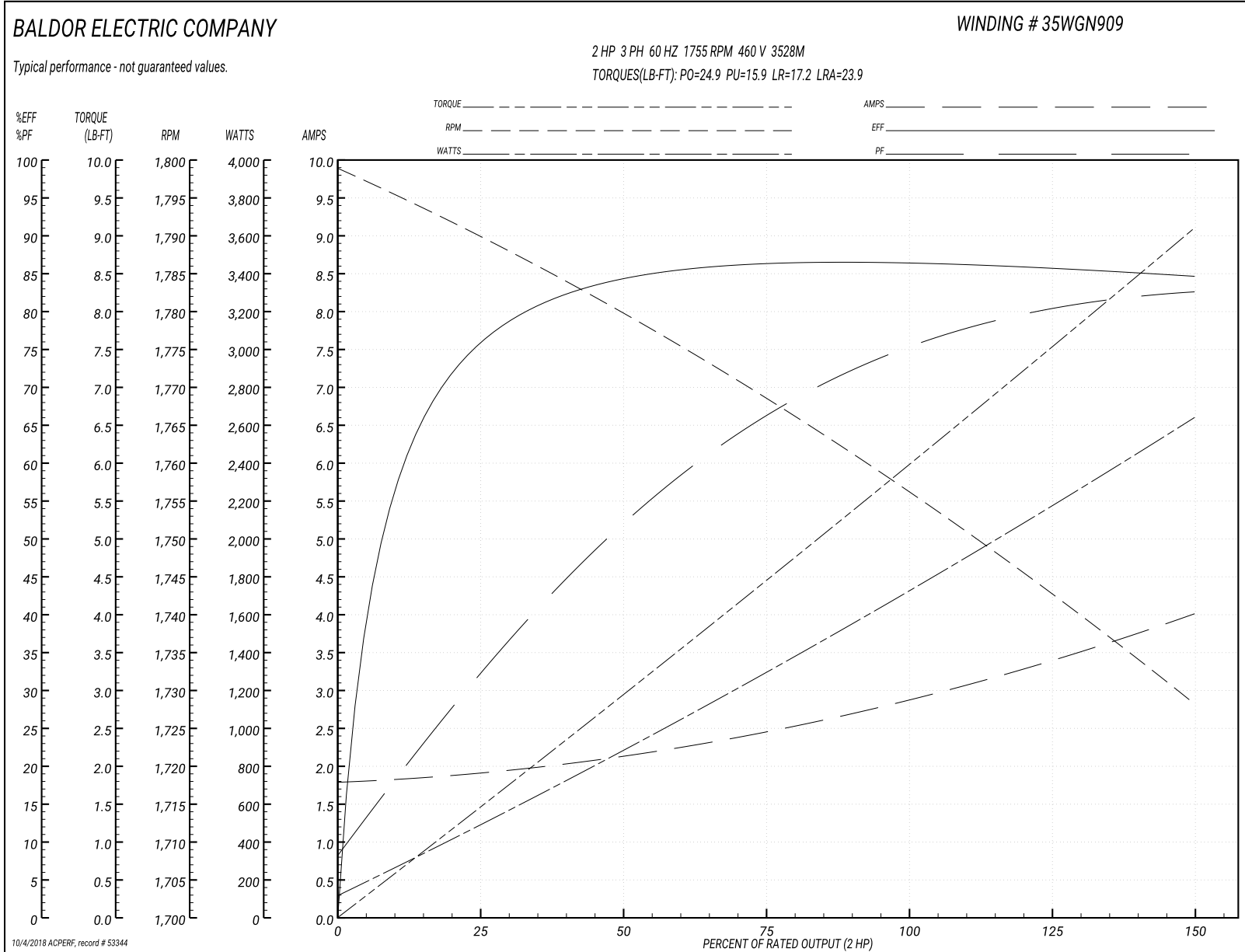
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 35WGN909-R032 | Type: 3528M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

| Nameplate Data | | | | 460 V, 60 Hz: High Voltage Connection | |
|-----------------------|--------------|--------------|----|--|--------------------------|
| Rated Output (HP) | 2 | | | Full Load Torque | 5.99 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 5.8/2.9 | | | Breakdown Torque | 24.9 LB-FT |
| R.P.M. | 1755 | | | Pull-up Torque | 15.9 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 17.2 LB-FT |
| NEMA Design Code | B | KVA Code | L | Starting Current | 23.9 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 1.81 A |
| NEMA Nom. Eff. | 86.5 | Power Factor | 75 | Line-line Res. @ 25°C | 8.02 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 65°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 77°C |
| | | | | Locked-rotor Power Factor | 52.4 |
| | | | | Rotor inertia | 0.165 LB-FT ² |

Load Characteristics 460 V, 60 Hz, 2 HP

| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 33 | 53 | 66 | 74 | 80 | 83 | 78 |
| Efficiency | 75.5 | 84 | 86.3 | 86.5 | 85.8 | 84.5 | 86.2 |
| Speed | 1790 | 1779 | 1769 | 1756 | 1743 | 1728 | 1748 |
| Line amperes | 1.89 | 2.11 | 2.46 | 2.91 | 3.4 | 4 | 3.2 |

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 57956 - Typical performance - not guaranteed values

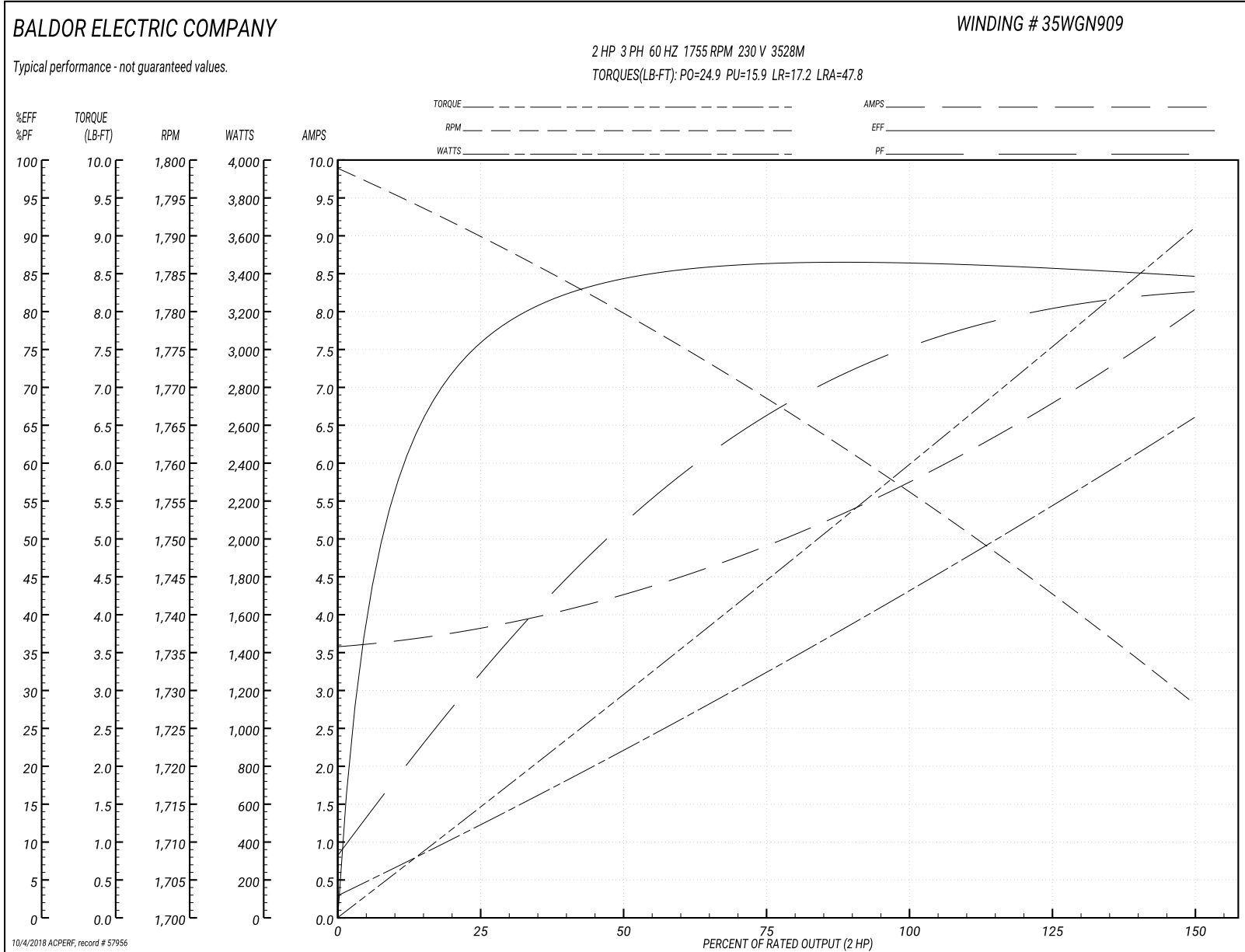
| | | |
|-------------------------------|--------------------|------------------------|
| Winding: 35WGN909-R032 | Type: 3528M | Enclosure: TEFC |
|-------------------------------|--------------------|------------------------|

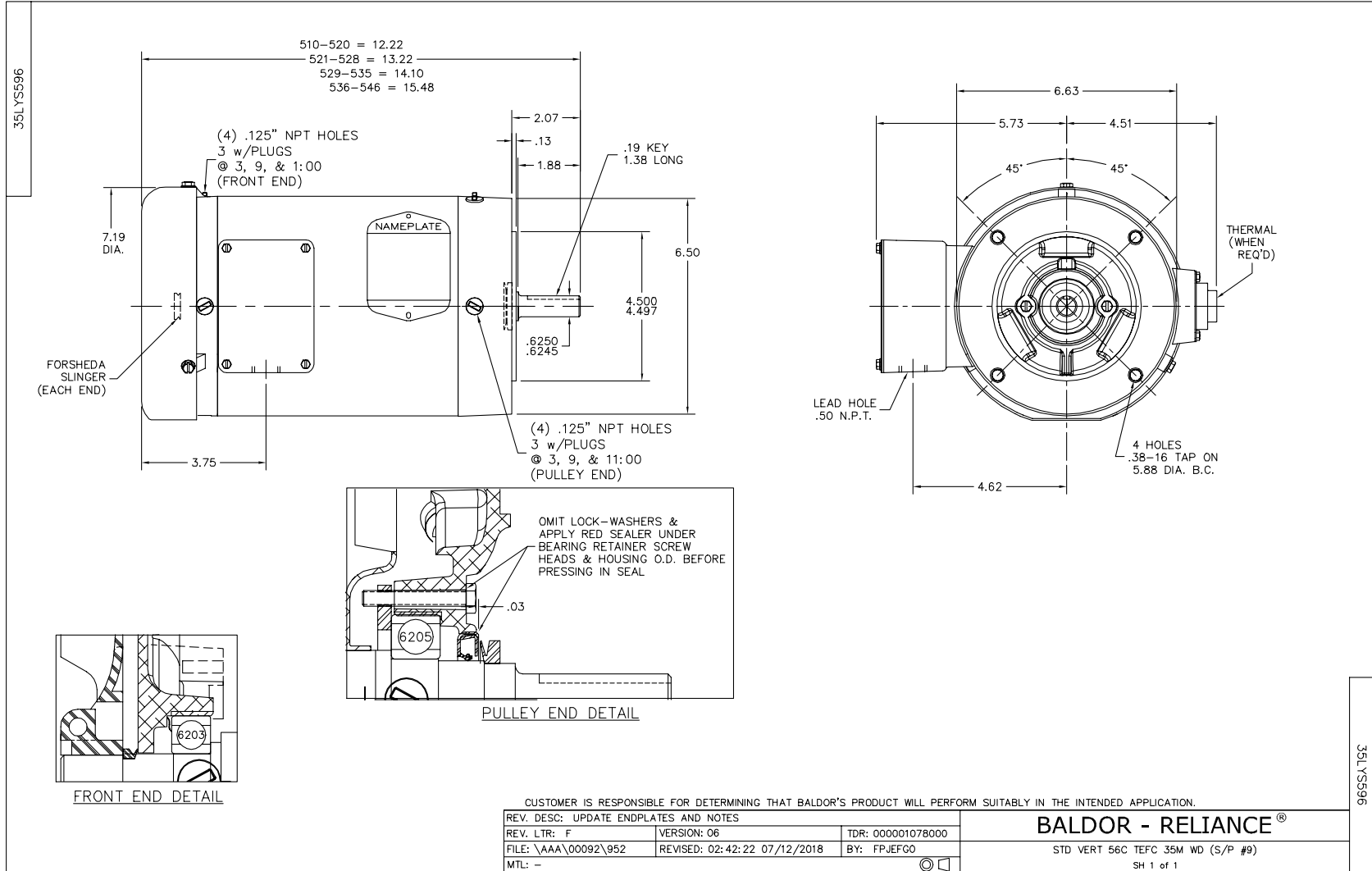
| Nameplate Data | | | | 230 V, 60 Hz: Low Voltage Connection | |
|-----------------------|--------------|--------------|----|---|--------------------------|
| Rated Output (HP) | 2 | | | Full Load Torque | 5.99 LB-FT |
| Volts | 230/460 | | | Start Configuration | direct on line |
| Full Load Amps | 5.8/2.9 | | | Breakdown Torque | 24.9 LB-FT |
| R.P.M. | 1755 | | | Pull-up Torque | 15.9 LB-FT |
| Hz | 60 | Phase | 3 | Locked-rotor Torque | 17.2 LB-FT |
| NEMA Design Code | B | KVA Code | L | Starting Current | 47.8 A |
| Service Factor (S.F.) | 1.15 | | | No-load Current | 3.62 A |
| NEMA Nom. Eff. | 86.5 | Power Factor | 75 | Line-line Res. @ 25°C | 2 Ω |
| Rating - Duty | 40C AMB-CONT | | | Temp. Rise @ Rated Load | 65°C |
| S.F. Amps | | | | Temp. Rise @ S.F. Load | 77°C |
| | | | | Locked-rotor Power Factor | 52.4 |
| | | | | Rotor inertia | 0.165 LB-FT ² |

Load Characteristics 230 V, 60 Hz, 2 HP

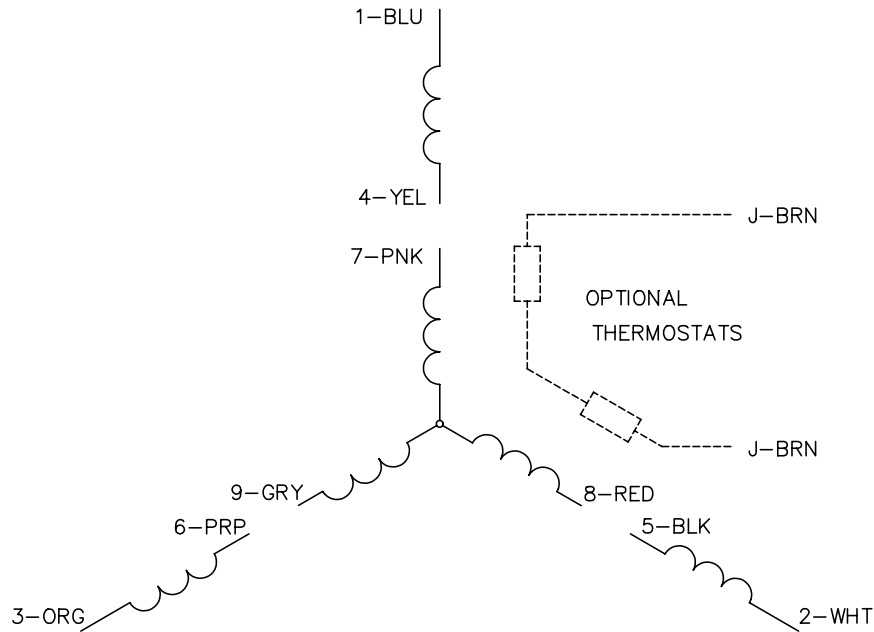
| % of Rated Load | 25 | 50 | 75 | 100 | 125 | 150 | S.F. |
|-----------------|------|------|------|------|------|------|------|
| Power Factor | 33 | 53 | 66 | 74 | 80 | 83 | 78 |
| Efficiency | 75.6 | 84.1 | 86.4 | 86.6 | 85.9 | 84.6 | 86.2 |
| Speed | 1790 | 1779 | 1769 | 1756 | 1743 | 1728 | 1748 |
| Line amperes | 3.78 | 4.22 | 4.92 | 5.82 | 6.8 | 8 | 6.41 |

Performance Graph at 230V, 60Hz, 2.0HP Typical performance - Not guaranteed values

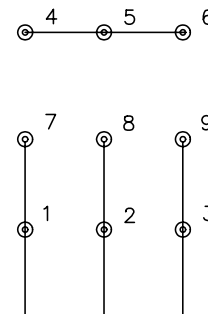




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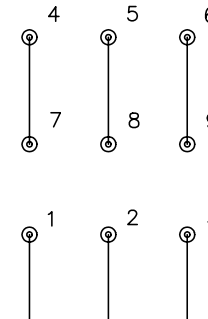


LOW VOLTAGE
(2Y)



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

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