

DATA SHEET

Premium Efficiency Motor: **NAT34-18-56CRD**

60 Hz

WorldWide Electric Corporation

1 (800) 808-2131

Worldwideelectric.net



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Customer:

| MOTOR INFORMATION | |
|-------------------------|-----------------------------|
| HP | 3/4 |
| RPM | 1800 |
| Phase | 3 |
| Frequency | 60 Hz |
| Voltage | 230/460 |
| Frame Size | 56C |
| Enclosure | TEFC |
| Degree of Protection | IP43 |
| Service Factor | 1.15 |
| Poles | 4 |
| Full Load Speed | 1725 |
| Insulation Class | F |
| Temp Rise | 80°C |
| NEMA Code Letter | L |
| Duty Cycle | S1 / Continuous |
| Slip | 0.04% |
| NEMA Design | B |
| Moment of Inertia | 0.0485 lb.ft.^2 |
| Sound Pressure Level | 68 dB(A) |
| Max Ambient Temperature | 40°C |
| Max Elevation | 1000 m.a.s.l (3300 f.a.s.l) |
| Mounting | F1 |
| Base | C-Face Footless |
| Rotation | Bi-Directional |
| Standard | NEMA MG-1 |
| Approvals | CSA, CE |

| EFFICIENCY/POWER FACTOR | | |
|-------------------------|--------|-------|
| LOAD | EFF | P. F. |
| 100% | 74.8 % | 76.2 |
| 75% | 74.7 % | 67.1 |
| 50% | 71.6 % | 53.4 |

| TORQUE | | |
|-------------|-------|-------|
| FULL LOAD | LRT | BDT |
| 2.25 lb.ft. | 240 % | 315 % |

| AMPERAGE INFORMATION | | |
|----------------------|-------|------|
| | 230V | 460V |
| Full Load Amps | 2.6 | 1.3 |
| Locked Rotor Amps | 13.16 | 6.58 |
| No Load Current | 1.6 | 0.8 |
| Usable at 208V | -- | |

| BEARING INFORMATION | |
|---------------------|----------|
| DE Bearing | 6203 2RS |
| ODE Bearing | 6203 2RS |

| ADDITIONAL DATA | |
|--------------------|------------------------|
| F2 Suitable | No |
| Shaft Material | 1045 Carbon Steel |
| Connection Diagram | 230 / 460 V - 9 Lead Y |
| Approximate Weight | 21.5 lbs. |

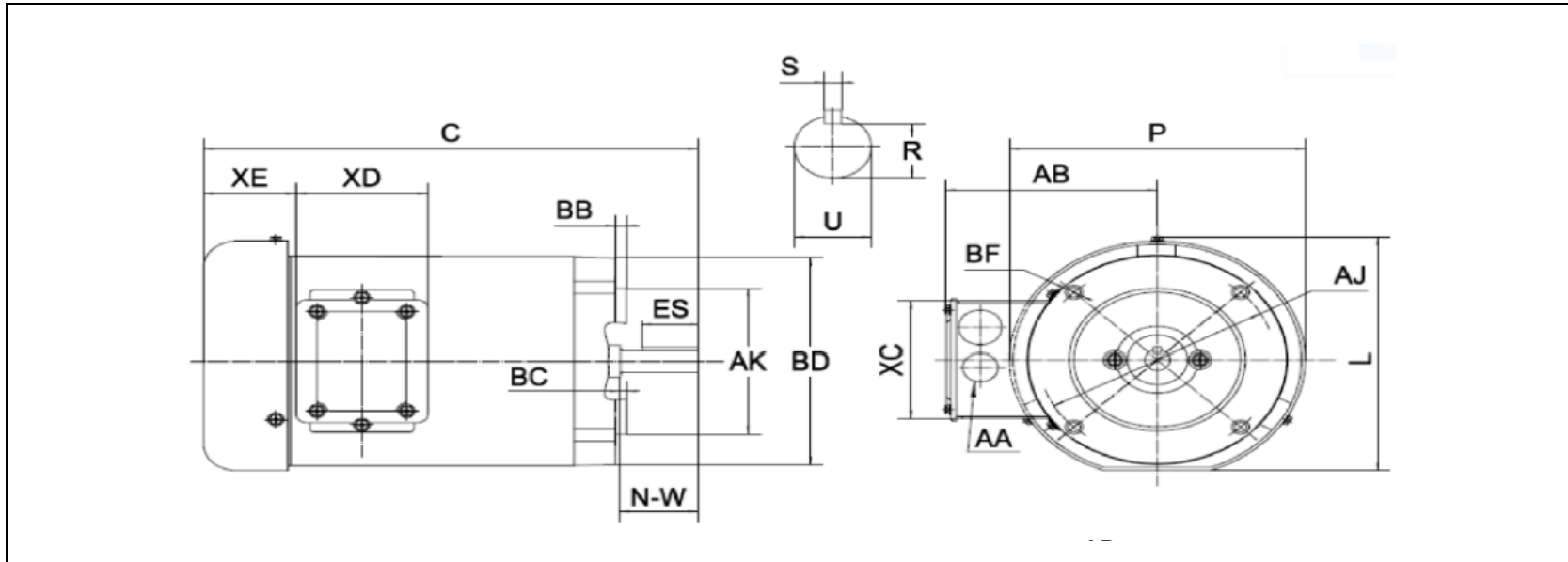
MOTOR DRAWING

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DIMENSION - INCHES

| FLANGE MOUNTING | | | | | | C | P | L | AB |
|-----------------|--------|-------|--------|------|-------|------|-----|-----|-----|
| AK | Max BD | AJ | BF | BB | BC | | | | |
| 4.5 | 6.5 | 5.875 | 3/8-16 | 0.16 | -0.19 | 11.9 | 7.3 | 7.4 | 5.2 |

| SHAFT & KEY | | | | |
|-------------|------|-------|------|-------|
| S | ES | R | N-W | U |
| 0.188 | 1.41 | 0.517 | 1.88 | 0.625 |

| TERMINAL BOX | | | | |
|----------------|----|-----|-----|------|
| AA | XB | XC | XD | XE |
| 3-0.88/2-1.109 | 11 | 3.7 | 3.2 | 2.15 |

PERFORMANCE CURVES

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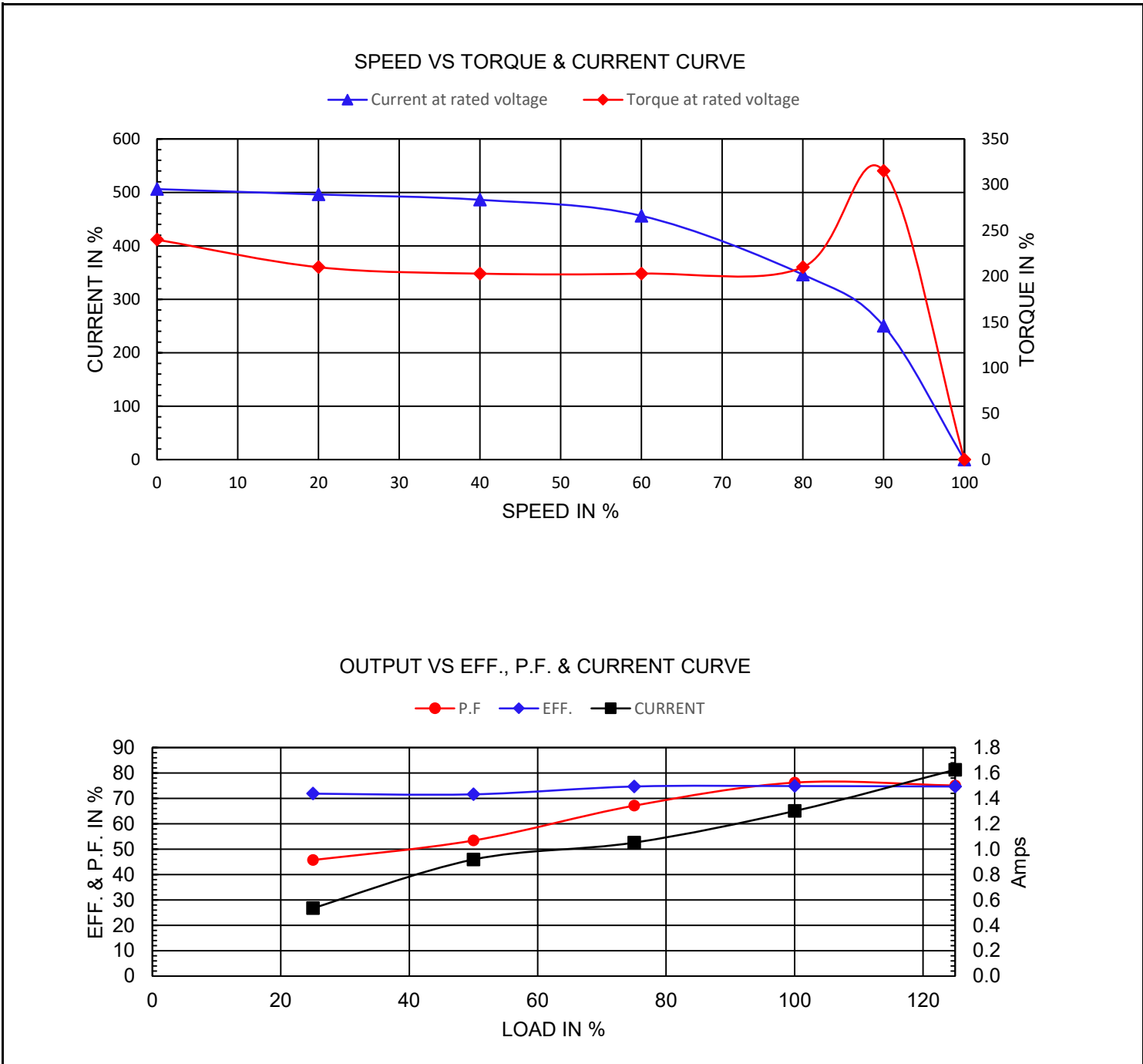


Premium Efficiency Motor:

NAT34-18-56CRD

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| | | | | | | |
|--------------------|--------|---------|------------|------|--------------|-----|
| Motor Type | | | FL Speed | 1725 | | |
| Output Rating (HP) | 3/4 | | LRT (%FLT) | 240 | 460 volt FLA | 1.3 |
| Full Load Torque | 2.25 | lb.ft | BDT (%FLT) | 315 | 230 volt FLA | 2.6 |
| Rotor Wk^2 | 0.0485 | lb-ft^2 | | | | |



NAMEPLATE / WIRING

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SAMPLE NAMEPLATE DATA

| | | | | | | | |
|--------------------------|--------------------|--|-------|---------------------------------------|-------|----------------------|--|
| | | THREE PHASE INDUCTION MOTOR | | C US Energy Verified 256950 | | | |
| | | | | | | | |
| MODEL | FRAME | LOW VOLTAGE | | HIGH VOLTAGE | | MADE IN CHINA | |
| Hz | ENCL. TEFC | BLUE (T1) — | LINE1 | BLUE (T1) — | LINE1 | | |
| HP | PH 3 | BROWN (T7) — | LINE2 | WHITE (T2) — | LINE2 | | |
| RPM | DUTY CONT | WHITE (T2) — | | ORANGE (T3) — | LINE3 | | |
| VOLTS | CODE | RED (T8) — | LINE3 | YELLOW (T4) — | INS | | |
| AMPS | INS. F | ORANGE (T3) — | | BLACK (T5) — | INS | | |
| | DES. | YEL/BLA (T9) — | INS | RED (T8) — | INS | | |
| S. F. | LB/WT | YELLOW (T4) — | | GRAY (T6) — | INS | | |
| | | BLACK (T5) — | | YEL/BLA (T9) — | INS | | |
| | | GRAY (T6) — | | | | | |
| NOM. EFF (60Hz) | DE/ODE BRG. | ACCEPTABLE FOR FIELD WIRING | | | | | |
| MAX. AMB. 40°C | Date Code XX/XXXXX | THERMALLY PROTECTED : NONE | | | | | |
| SERIAL NO. XXXXXXXXXXXXX | | WorldWide Electric Corporation | | | | | |

| | | | |
|-----------------|----------------|-----------------|-----------|
| Model | NAT34-18-56CRD | Frame | 56C |
| Hz | 60 Hz | Encl | TEFC |
| HP | 3/4 | PH | 3 |
| RPM | 1725 | DUTY | CONT |
| Voltage | 230/460 | Code | L |
| Amps | 2.6/1.3 | Ins Cl | F |
| IP | IP43 | Design | B |
| S.F. | 1.15 | LB/WT | 21.5 lbs. |
| Nom.Eff. | 74.8% | DE Brng | 6203 2RS |
| | | ODE Brng | 6203 2RS |