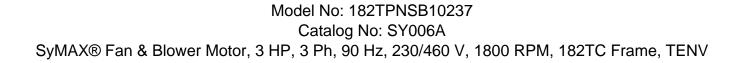
PRODUCT INFORMATION PACKET





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marathon®



Product Information Packet: Model No: 182TPNSB10237, Catalog No:SY006A SyMAX® Fan & Blower Motor, 3 HP, 3 Ph, 90 Hz, 230/460 V, 1800 RPM, 182TC Frame, TENV

marathon®

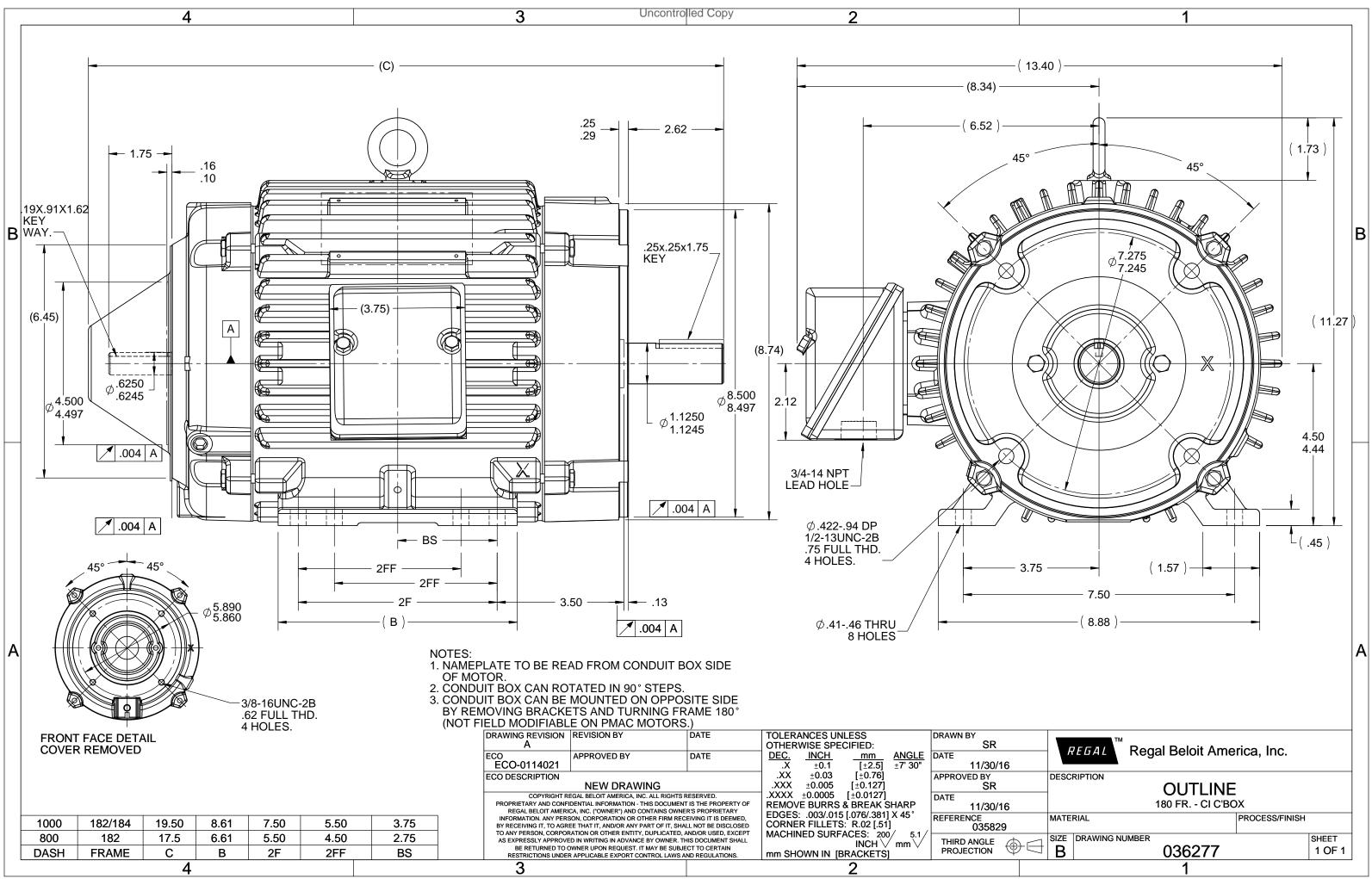
Nameplate Specifications

| Phase | 3 | Output HP | 3 Hp |
|------------------------|----------------|----------------------------|---------------------------------|
| Output KW | 2.2 kW | Voltage | 230/460 V |
| Speed | 1800 rpm | Service Factor | 1 |
| Frame | 182TC | Enclosure | Totally Enclosed Non Ventilated |
| Thermal Protection | Thermostat | Efficiency | 92.9 % |
| Ambient Temperature | 40 °C | Frequency | 90 Hz |
| Current | 6.8/3.4 A | Power Factor | 87 |
| Duty | Continuous | Insulation Class | н |
| Design Code | No Design Code | KVA Code | N/A |
| Drive End Bearing Size | 6207 | Opp Drive End Bearing Size | 6207 |
| UL | Recognized | CSA | Ν |
| CE | Ν | IP Code | 54 |
| Number of Speeds | 1 | | |

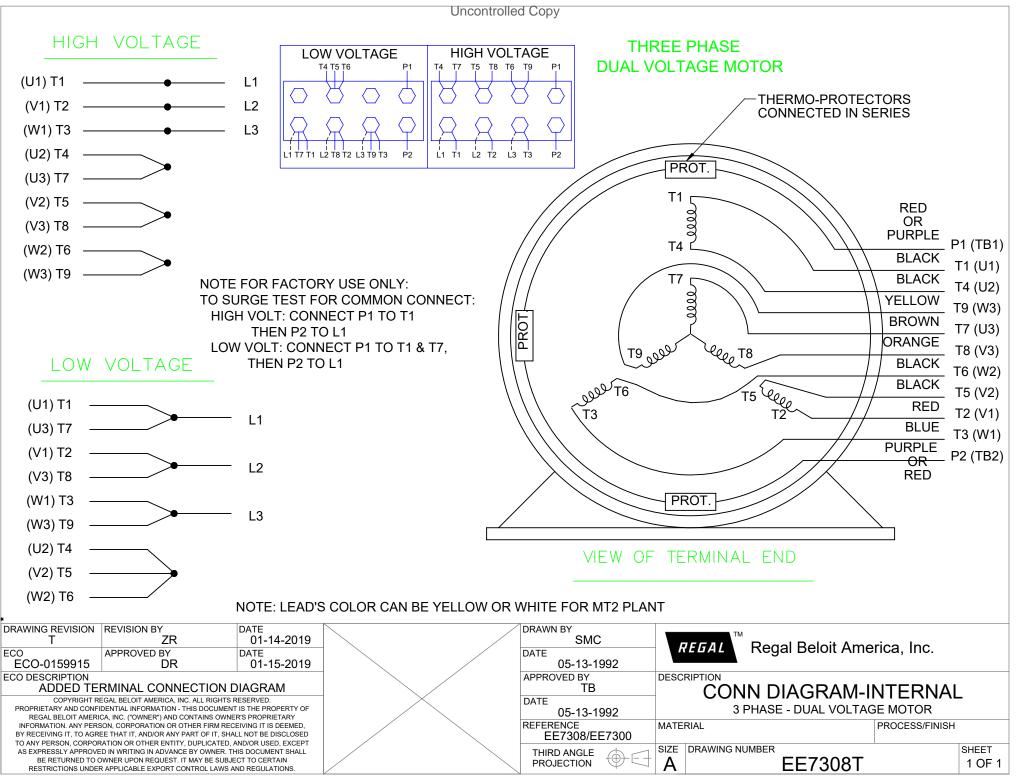
Technical Specifications

| Electrical Type | AC Permament Magnet | Starting Method | Inverter Only |
|-----------------------|---------------------|-----------------------|---------------|
| Poles | 6 | Rotation | Reversible |
| Resistance Main | 0 Ohms | Mounting | Rigid Base |
| Motor Orientation | Horizontal | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Cast Iron |
| Shaft Type | т | Overall Length | 17.50 in |
| Frame Length | 8.00 in | Shaft Diameter | 1.125 in |
| Shaft Extension | 2.62 in | Assembly/Box Mounting | F1 ONLY |
| Inverter Load | CONSTANT 20:1 | | |
| Outline Drawing | 036277-800 | Connection Drawing | EE7308T |

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CERTIFICATION DATA SHEET

| Model#: | 182TPNSB10237 A | WINDING#: | PM18406011 R1 1 |
|----------------|-----------------|-----------|-----------------|
| CONN. DIAGRAM: | EE7308T | ASSEMBLY: | F1 ONLY |
| OUTLINE: | 036277-800 | | |

TYPICAL MOTOR PERFORMANCE DATA

| | HP | | ĸw | SYNC | . RPM | F.L. RPM | FRAME | EN | CLOSURE | KVA C | ODE | DESIGN |
|---|-------------|----------|---------|----------|---------|-------------|-----------|------|------------|--------|-------|-----------|
| | 3 | | 2.24 | 18 | 300 | 1800 | 182TC | | TENV | NO KVA | CODE | PM |
| | РН | Hz | vo | LTS | FL AMPS | START TYPE | DUTY | INSL | . s | i.F | AMB°C | ELEVATION |
| | 3 | 90 | 230 | /460 | 6.8/3.4 | INVERTER | CONTINUOU | H4 | 1 | .0 | 40 | 3300 |
| | | | | | | ONLY | S | | | | | |
| 1 | | | | | | | | | 1 | | | |
| | FULL LOAD E | FF: 92.9 | 3/4 LOA | D EFF: 0 | 1/2 | LOAD EFF: 0 | GTD. E | FF | ELEC | . TYPE | NO | LOAD AMPS |
| ì | | | | | | | | | i | | | |

| FULL LOAD PF: 87 | 3/4 LOAD PF: 85 | 1/2 LOAD PF: 85 | 92.4 | AC PERMANENT MAGNET | 1.2 / .6 |
|------------------|-----------------|-----------------|------|------------------------|----------|
| | | | |] | |

| 8.753 LB-FT / | - LB-FT - | - LB-FT - | 46 |
|---------------|-----------|-----------|----|

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---------------------------|-------------|--------------|-----------|-----------------|-----------------|----------------------|
| 0 dBA | 10 dBA | 0.19 LB-FT^2 | 0 LB-FT^2 | 0 SEC. | 0 | 105 LBS. |

EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)

| R1 | R2 | X1 | X2 | ХМ |
|----|------|------|------|-----|
| 0 | 2.84 | 47.8 | 92.9 | 215 |
| RM | ZREF | XR | TD | TD0 |
| 0 | 1 | 0 | 0 | 0 |

*** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|--------------------|---------------------|---------------|-------------|------------------------|-----------------------|---------------|---------|------------------|
| C-FACE | ENCODER | RIGID | HORIZONTAL | PREMIUM SEVERE DUTY | NONE | FALSE | NONE | BLACK (EPOXY) |

| BEAF | BEARINGS | | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT | FRAME |
|------|----------|------------|------------|------------|-------------|----------------|-----------|
| DE | OPE | | | | | MATERIAL | MATERIAL |
| BALL | BALL | POLYREX EM | т | NONE | NONE | 1045 HOT | CAST IRON |
| 6207 | 6207 | | | | | ROLLED (C-204) | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|-------------------|------------|----------|----------|-------------|---------|------------------|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| TSTATS 140(N/C) | NOT | NONE | NONE | NONE | FALSE | NONE VOLTS |

If Inverter equals NONE, contact factory for further

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|--------------------------|
| ANT 20:1 X BASE SPEED |
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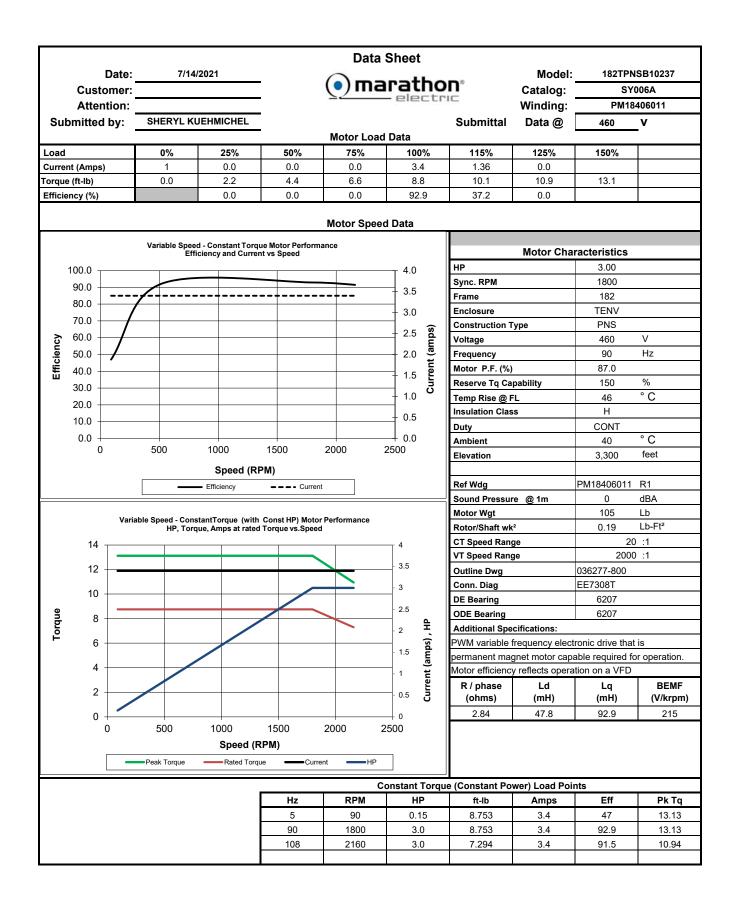
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NONE P/N NONE NONE NONE NONE FT-LB NONE V NONE Hz

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