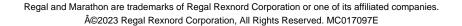
# PRODUCT INFORMATION PACKET



Model No: 182TPFRB10194 Catalog No: SY066

SyMAX® Fan & Blower Motor, 3 HP, 3 Ph, 90 Hz, 230/460 V, 1800 RPM, 182TC Frame, TEFC









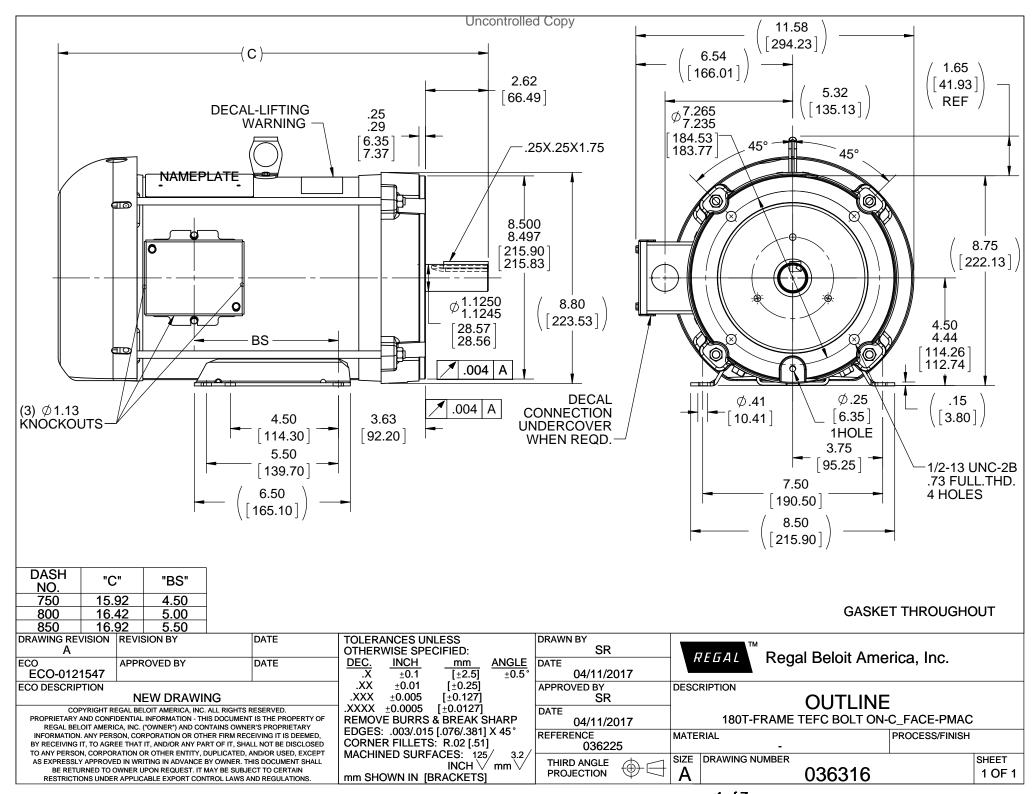
### Nameplate Specifications

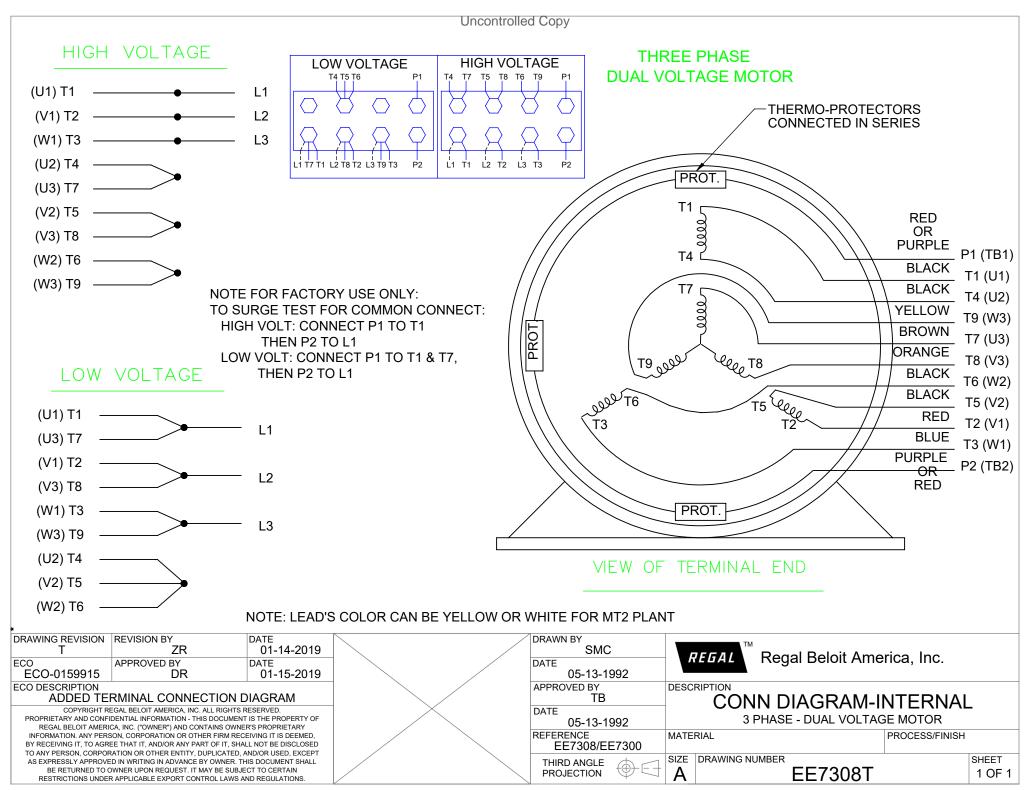
| Phase                  | 3              | Output HP                  | 3 Hp                        |
|------------------------|----------------|----------------------------|-----------------------------|
| Output KW              | 2.2 kW         | Voltage                    | 230/460 V                   |
| Speed                  | 1800 rpm       | Service Factor             | 1                           |
| Frame                  | 182TC          | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | Thermostat     | Efficiency                 | 91.4 %                      |
| Ambient Temperature    | 40 °C          | Frequency                  | 90 Hz                       |
| Current                | 6.6/3.3 A      | Power Factor               | 85                          |
| Duty                   | Continuous     | Insulation Class           | F                           |
| Design Code            | No Design Code | KVA Code                   | N/A                         |
| Drive End Bearing Size | 6207           | Opp Drive End Bearing Size | 6205                        |
| UL                     | Recognized     | CSA                        | Υ                           |
| CE                     | N              | IP Code                    | 43                          |
| Number of Speeds       | 1              |                            |                             |

## **Technical Specifications**

| Electrical Type       | AC Permament Magnet      | Starting Method       | Inverter Only |
|-----------------------|--------------------------|-----------------------|---------------|
| Poles                 | 6                        | Rotation              | Reversible    |
| Resistance Main       | 0 Ohms                   | Mounting              | Bolt-on Base  |
| Motor Orientation     | Horizontal Or Shaft Down | Drive End Bearing     | Ball          |
| Opp Drive End Bearing | Ball                     | Frame Material        | Rolled Steel  |
| Shaft Type            | Т                        | Overall Length        | 16.42 in      |
| Frame Length          | 8.00 in                  | Shaft Diameter        | 1.125 in      |
| Shaft Extension       | 2.75 in                  | Assembly/Box Mounting | F1 ONLY       |
| Inverter Load         | CONSTANT 20:1            |                       |               |
| Connection Drawing    | A-EE7308T                | Outline Drawing       | 036316-800    |

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#### **CERTIFICATION DATA SHEET**

182TPFRB10194 AA WINDING#: PM18406011 NONE 1 Model#:

ASSEMBLY: F1 ONLY CONN. DIAGRAM: A-EE7308T

OUTLINE: 036316-800

#### **TYPICAL MOTOR PERFORMANCE DATA**

|   | HP | к  | W   | SYN   | IC. RPM | F.L. RPM   | FRAME     | ENCLOS | SURE | KV   | A CODE  | DESIGN    |
|---|----|----|-----|-------|---------|------------|-----------|--------|------|------|---------|-----------|
|   | 3  | 2. | 24  | ]     | 1800    | 1800       | 182TC     | TEF    | С    | NO K | VA CODE | PM        |
|   | РН | Hz | vo  | LTS   | FL AMPS | START TYPE | DUTY      | INSL   | s    | .F   | AMB°C   | ELEVATION |
| ſ | 3  | 90 | 230 | )/460 | 6.6/3.3 | INVERTER   | CONTINUOU | F1     | 1    | .0   | 40      | 3300      |

| FULL LOAD EFF: 91.4 | 3/4 LOAD EFF: 91 | 1/2 LOAD EFF: 89.7 | GTD. EFF | ELEC. TYPE   | NO LOAD AMPS |
|---------------------|------------------|--------------------|----------|--------------|--------------|
| FULL LOAD PF: 85    | 3/4 LOAD PF: 85  | 1/2 LOAD PF: 85    | 91       | AC PERMANENT | 1 / .5       |
|                     |                  |                    |          | MAGNET       |              |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|-------------|-------------|-------------|
| 8.753 LB-FT |                   | - LB-FT -   | - LB-FT -   | 36          |

| SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2   | MAX. WK^2 | SAFE STALL TIME | STARTS<br>/HOUR | APPROX. MOTOR<br>WGT |
|---------------------------|-------------|--------------|-----------|-----------------|-----------------|----------------------|
| 0 dBA                     | 10 dBA      | 0.19 LB-FT^2 | 0 LB-FT^2 | 0 SEC.          | 0               | 75 LBS.              |

#### **EQUIVALENT WYE CKT.PARAMETERS (OHMS PER PHASE)**

| R1 | R2   | X1   | Х2   | XM  |
|----|------|------|------|-----|
| 0  | 2.84 | 47.8 | 92.9 | 218 |
| RM | ZREF | XR   | TD   | TD0 |
| 0  | 1    | 0    | 0    | 0   |

#### \*\*\* SUPPLEMENTAL INFORMATION \*\*\*

| DE BRACKET<br>TYPE | ODE BRACKET<br>TYPE | MOUNT<br>TYPE | ORIENTATION            | SEVERE<br>DUTY | HAZARDOUS<br>LOCATION | DRIP<br>COVER | SCREENS | PAINT            |
|--------------------|---------------------|---------------|------------------------|----------------|-----------------------|---------------|---------|------------------|
| C-FACE             | STANDARD            | BOLT-ON       | HORIZONTAL<br>OR SHAFT | FALSE          | NONE                  | FALSE         | NONE    | BLACK<br>(EPOXY) |
|                    |                     |               | DOWN                   |                |                       |               |         |                  |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT          | FRAME        |
|----------|------|------------|------------|------------|-------------|----------------|--------------|
| DE       | OPE  |            |            |            |             | MATERIAL       | MATERIAL     |
| BALL     | BALL | POLYREX EM | Т          | NONE       | NONE        | 1045 HOT       | ROLLED STEEL |
| 6207     | 6205 |            |            |            |             | ROLLED (C-204) |              |

|                 | THERMO-PF  | ROTECTORS | 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 information

INVERTER TORQUE: CONSTANT 20:1 INV. HP SPEED RANGE: 1.2 X BASE SPEED

ENCODER: NONE
NONE NONE PPR

BRAKE: NONE NONE NONE P/N NONE NONE NONE

NONE FT-LB NONE V NONE Hz

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