

# Close-Coupled Pump Motors

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**Model No:** 182TTFBD6006

**Catalog No:** GT3109A

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Close-Coupled Pump Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182JM  
Frame, TEFC

**Product Information Packet: Model No: 182TTFBD6006, Catalog No: GT3109A Close-Coupled Pump Motor, 3 & 2 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182JM Frame, TEFC**

### Nameplate Specifications

|                            |                             |                        |                     |
|----------------------------|-----------------------------|------------------------|---------------------|
| Phase                      | 3                           | Output HP              | 3 & 2 Hp            |
| Output KW                  | 2.2 & 1.5 kW                | Voltage                | 230/460 & 190/380 V |
| Speed                      | 3530 & 2944 r/min           | Synchronous RPM        | 3600 & 3000 r/min   |
| Service Factor             | 1.15 & 1.15                 | Frame                  | 182JM               |
| Enclosure                  | Totally Enclosed Fan Cooled | Thermal Protection     | No Protection       |
| Efficiency                 | 86.5 & 84.9 %               | Ambient Temperature    | 40 °C               |
| Frequency                  | 60 & 50 Hz                  | Current                | 8/4 & 6.8/3.4 A     |
| Power Factor               | 82                          | Duty                   | Continuous          |
| Insulation Class           | F                           | Design Code            | A                   |
| KVA Code                   | L                           | Drive End Bearing Size | 6307                |
| Opp Drive End Bearing Size | 6205                        | UL                     | Listed              |
| CSA                        | Y                           | CE                     | Y                   |
| IP Code                    | 43                          | Number of Speeds       | 1                   |
| Hazardous Location         | DIVISION 2 T2B              |                        |                     |

### Technical Specifications

|                       |                              |                   |                             |
|-----------------------|------------------------------|-------------------|-----------------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method   | Line Or Inverter            |
| Poles                 | 2                            | Rotation          | Reversible                  |
| Resistance Main       | 5.35 O                       | Mounting          | Rigid Base                  |
| Motor Orientation     | Horizontal                   | Drive End Bearing | Ball                        |
| Opp Drive End Bearing | Ball                         | Frame Material    | Rolled Steel                |
| Shaft Type            | JM                           | Shaft Diameter    | 1.25 in                     |
| Assembly/Box Mounting | F1/F2 Capable                | Inverter Load     | Constant 10:1/Variable 10:1 |

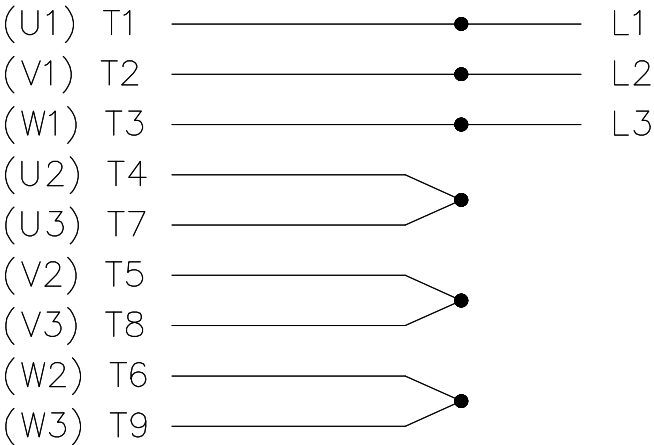
### Drawings

|                    |        |                 |              |
|--------------------|--------|-----------------|--------------|
| Connection Drawing | EE7308 | Outline Drawing | SS600202-100 |
|--------------------|--------|-----------------|--------------|

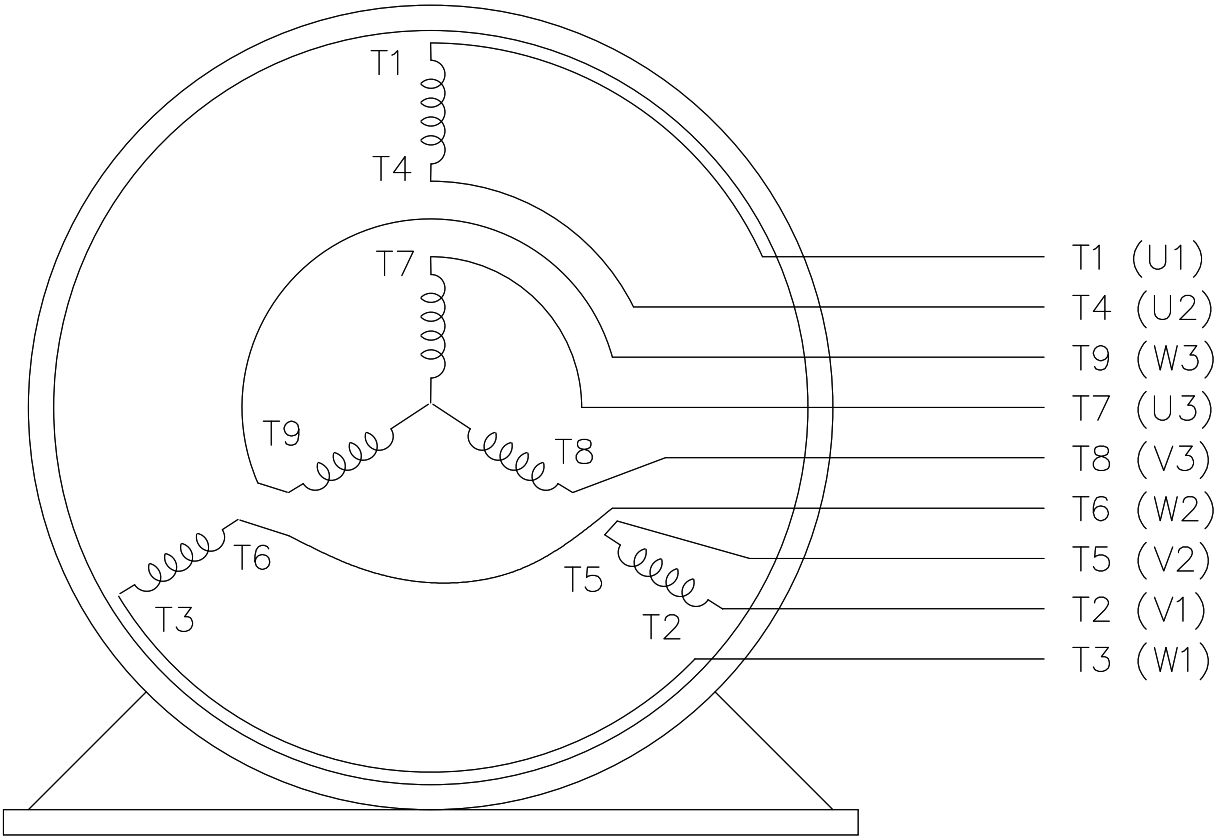
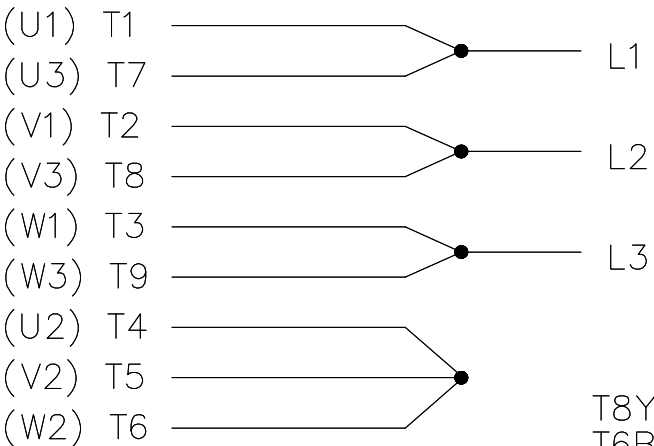


THREE PHASE  
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE



VIEW OF TERMINAL END

REF.  
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G  
T6BZ, T2B, T6BL, T4AV, T6B, T4B

OPTIONAL CORD  
CONNECTION

L1 WHITE  
L2 RED  
L3 BLACK

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                    |                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------------------|
| DRAWING REVISION<br>J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | REVISION BY<br>SB  | REV DATE/ © DATE<br>08/01/2025 |
| REQUEST NUMBER<br>CR-0023654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | APPROVED BY<br>SBD | DATE<br>08/01/2025             |
| REQUEST NUMBER DESCRIPTION<br>DRAWING TITLE BLOCK UPDATED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                    |                                |
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PRIMARY DIMENSIONS ARE INCH  
mm DIMENSIONS IN [BRACKETS]  
ARE FOR REFERENCE ONLY

|                           |
|---------------------------|
| DRAWN BY<br>RM            |
| DATE<br>11/20/1990        |
| APPROVED BY<br>SAS        |
| DATE<br>04/24/2003        |
| REFERENCE                 |
| THIRD ANGLE<br>PROJECTION |

|                                                                 |                          |                 |
|-----------------------------------------------------------------|--------------------------|-----------------|
| marathon™                                                       |                          |                 |
| DESCRIPTION<br>CONN DIAGRAM-EXTERNAL<br>3Ø - DUAL VOLTAGE MOTOR |                          |                 |
| MATERIAL                                                        |                          | PROCESS/FINISH  |
| SIZE<br>A                                                       | DRAWING NUMBER<br>EE7308 | SHEET<br>1 OF 1 |



**P.O. BOX 8003  
WAUSAU, WI 54401-8003  
PH. 715-675-3311**

**CERTIFICATION DATA SHEET****CUSTOMER:****ORDER #:****CONN. DIAGRAM:** EE7308**OUTLINE:** SS600202-182JM**WINDING #:** HE31122014 3**CUSTOMER PO#:****MODEL #:** 182TTFBD6006 AA**CUSTOMER PART #:****MOUNTING:** F1/F2 CAPABLE**TYPICAL MOTOR PERFORMANCE DATA**

| HP  | kW        | SYNC. RPM | F.L. RPM  | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|-----|-----------|-----------|-----------|-------|-----------|----------|--------|
| 3&2 | 2.24&1.49 | 3600      | 3522&2935 | 182JM | TEFC      | J        | B      |

| PH | Hz    | VOLTS           | AMPS        | START TYPE       | DUTY       | INSL | S.F.      | AMB°C |
|----|-------|-----------------|-------------|------------------|------------|------|-----------|-------|
| 3  | 60/50 | 230/460&190/380 | 8/4&6.8/3.4 | LINE OR INVERTER | CONTINUOUS | F7   | 1.15/1.15 | 40    |

|                       |         |                      |      |                      |      |                 |  |                   |
|-----------------------|---------|----------------------|------|----------------------|------|-----------------|--|-------------------|
| <b>FULL LOAD EFF:</b> | 86.5&84 | <b>3/4 LOAD EFF:</b> | 85.5 | <b>1/2 LOAD EFF:</b> | 82.5 | <b>GTD. EFF</b> |  | <b>ELEC. TYPE</b> |
| <b>FULL LOAD PF:</b>  | 82&79   | <b>3/4 LOAD PF:</b>  | 74.5 | <b>1/2 LOAD PF:</b>  | 61.6 | 85.5            |  | SQ CAGE INV RATED |

|                    |  |                          |  |                    |  |                    |  |                    |
|--------------------|--|--------------------------|--|--------------------|--|--------------------|--|--------------------|
| <b>F.L. TORQUE</b> |  | <b>LOCKED ROTOR AMPS</b> |  | <b>L.R. TORQUE</b> |  | <b>B.D. TORQUE</b> |  | <b>F.L. RISE°C</b> |
| 4.475 LB-FT        |  | 64 / 32                  |  | 9 LB-FT 200 %      |  | 16 LB-FT 356 %     |  | 55                 |

|                               |  |                    |  |                   |  |                  |  |                        |  |                      |  |                          |
|-------------------------------|--|--------------------|--|-------------------|--|------------------|--|------------------------|--|----------------------|--|--------------------------|
| <b>SOUND PRESSURE @ 3 FT.</b> |  | <b>SOUND POWER</b> |  | <b>ROTOR WK^2</b> |  | <b>MAX. WK^2</b> |  | <b>SAFE STALL TIME</b> |  | <b>STARTS / HOUR</b> |  | <b>APPROX. MOTOR WGT</b> |
| 50 dBA                        |  | 60 dBA             |  | 0.18 LB-FT^2      |  | - LB-FT^2        |  | 15 SEC.                |  | 2                    |  | 126 LBS.                 |

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

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER      | SCREENS | PAINT        |
|-----------------|------------------|------------|-------------|-------------|--------------------|-----------------|---------|--------------|
| C-FACE          | STANDARD         | RIGID      | HORIZONTAL  | FALSE       | DIVISION 2 T2B     | PROVISIONS ONLY | NONE    | BLUE (EPOXY) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL          | FRAME MATERIAL |
|----------|------|------------|------------|------------|-------------|-------------------------|----------------|
| DE       | ODE  |            |            |            |             |                         |                |
| BALL     | BALL | POLYREX EM | JM         | NONE       | NONE        | 1045 HOT ROLLED (C-204) | ROLLED STEEL   |
| 6307     | 6205 |            |            |            |             |                         |                |

| THERMO-PROTECTORS |            |          |          | THERMISTORS | CONTROL | SPACE HEATERS |
|-------------------|------------|----------|----------|-------------|---------|---------------|
| THERMOSTATS       | PROTECTORS | WDG RTDs | BRG RTDs |             |         |               |
| NONE              | NOT        | NONE     | NONE     | NONE        | FALSE   | NONE VOLTS    |

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**INVERTER TORQUE:**

CONSTANT 10:1/VARIABLE 10:1

**INV. HP SPEED RANGE:** NONE**ENCODER:** NONE

NONE NONE

NONE NONE PPR

**BRAKE:** NONE NONE

NONE P/N NONE

NONE NONE

NONE FT-LB NONE V NONE Hz

**PREPARED BY:** DineshSuddula **DATE:**

02/13/2019 01:02:54 AM

FORM 3531 REV.3 02/07/99

\*\* Subject to change without notice.