

# PRODUCT INFORMATION PACKET

**marathon®**  
Motors

Model No: 182TTFB6092

Catalog No: GT3205

1.50 HP Close-Coupled Pump Motor, 3 phase, 1200 RPM, 575 V, 182JMV Frame, TEFC  
Close-Coupled Pump Motors



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies.  
©2021 Regal Rexnord Corporation, All Rights Reserved. MC017097E

**RegalRexnord**

### Nameplate Specifications

|                        |            |                            |                             |
|------------------------|------------|----------------------------|-----------------------------|
| Output HP              | 1.50 Hp    | Output KW                  | 1.1 kW                      |
| Frequency              | 60 Hz      | Voltage                    | 575 V                       |
| Current                | 1.9 A      | Speed                      | 1180 rpm                    |
| Service Factor         | 1.15       | Phase                      | 3                           |
| Efficiency             | 87.5 %     | Power Factor               | 71                          |
| Duty                   | Continuous | Insulation Class           | F                           |
| Design Code            | B          | KVA Code                   | J                           |
| Frame                  | 182JMV     | Enclosure                  | Totally Enclosed Fan Cooled |
| Thermal Protection     | No         | Ambient Temperature        | 40 °C                       |
| Drive End Bearing Size | 6206       | Opp Drive End Bearing Size | 6205                        |
| UL                     | Recognized | CSA                        | Y                           |
| CE                     | Y          | IP Code                    | 43                          |
| Number of Speeds       | 1          |                            |                             |

### Technical Specifications

|                       |                              |                   |                  |
|-----------------------|------------------------------|-------------------|------------------|
| Electrical Type       | Squirrel Cage Inverter Rated | Starting Method   | Line Or Inverter |
| Poles                 | 6                            | Rotation          | Reversible       |
| Resistance Main       | 5.95 Ohms                    | Mounting          | Rigid Base       |
| Motor Orientation     | Horizontal Or Shaft Down     | Drive End Bearing | Ball             |
| Opp Drive End Bearing | Ball                         | Frame Material    | Rolled Steel     |
| Shaft Type            | JM                           | Overall Length    | 17.51 in         |
| Shaft Diameter        | 0.875 in                     | Shaft Extension   | 4.25 in          |
| Assembly/Box Mounting | F1/F2 CAPABLE                |                   |                  |
| Connection Drawing    | EE7300                       | Outline Drawing   | SS620560-182JM   |



# THREE PHASE - SINGLE VOLTAGE MOTOR - CONDUIT BOX @ 'A'

TO REVERSE ROTATION:  
INTERCHANGE ANY TWO  
LINE LEAD CONNECTIONS.

## TERMINAL BLOCK WHEN SPECIFIED



### IF MOTOR HAS 6 LEADS



A-9806 DECAL

### OPTIONAL CORD CONNECTION



## VIEW OF TERMINAL END

|   |                    |                    |
|---|--------------------|--------------------|
| DRAWING REVISION<br>AB  | REVISION BY<br>JJB | DATE<br>06-27-2017 |
| ECO<br>ECO-0125361  | APPROVED BY<br>TB  | DATE<br>06-27-2017 |
| ECO DESCRIPTION<br>UPDATED TO CURRENT STANDARDS   |                    |                    |
| <small>COPYRIGHT REGAL BELOIT AMERICA, INC. ALL RIGHTS RESERVED.<br/>         PROPRIETARY AND CONFIDENTIAL INFORMATION - THIS DOCUMENT IS THE PROPERTY OF<br/>         REGAL BELOIT AMERICA, INC. ("OWNER") AND CONTAINS OWNER'S PROPRIETARY<br/>         INFORMATION. ANY PERSON, CORPORATION OR OTHER FIRM RECEIVING IT IS DEEMED,<br/>         BY RECEIVING IT, TO AGREE THAT IT, AND/OR ANY PART OF IT, SHALL NOT BE DISCLOSED<br/>         TO ANY PERSON, CORPORATION OR OTHER ENTITY, DUPLICATED, AND/OR USED, EXCEPT<br/>         AS EXPRESSLY APPROVED IN WRITING IN ADVANCE BY OWNER. THIS DOCUMENT SHALL<br/>         BE RETURNED TO OWNER UPON REQUEST. IT MAY BE SUBJECT TO CERTAIN<br/>         RESTRICTIONS UNDER APPLICABLE EXPORT CONTROL LAWS AND REGULATIONS.</small> |                    |                    |

|                           |
|---------------------------|
| DRAWN BY<br>DA            |
| DATE<br>03-26-1993        |
| APPROVED BY<br>TB         |
| DATE<br>03-26-1993        |
| REFERENCE                 |
| THIRD ANGLE<br>PROJECTION |



Regal Beloit America, Inc.

DESCRIPTION  
**CONNECTION DIAGRAM**  
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

|           |                          |                 |
|-----------|--------------------------|-----------------|
| SIZE<br>A | DRAWING NUMBER<br>EE7300 | SHEET<br>1 OF 1 |
|-----------|--------------------------|-----------------|

## CERTIFICATION DATA SHEET

Model#: 182TTFB6092 AA

WINDING#: CHT18260007 NONE 3

CONN. DIAGRAM: EE7300

ASSEMBLY: F1/F2 CAPABLE

OUTLINE: SS620560

## TYPICAL MOTOR PERFORMANCE DATA

| HP    | KW   | SYNC. RPM | F.L. RPM | FRAME  | ENCLOSURE | KVA CODE | DESIGN |
|-------|------|-----------|----------|--------|-----------|----------|--------|
| 1 1/2 | 1.12 | 1200      | 1180     | 182JMV | TEFC      | J        | B      |

| PH | Hz | VOLTS | FL AMPS | START TYPE          | DUTY           | INSL | S.F  | AMB°C | ELEVATION |
|----|----|-------|---------|---------------------|----------------|------|------|-------|-----------|
| 3  | 60 | 575   | 1.85    | LINE OR<br>INVERTER | CONTINUOU<br>S | F7   | 1.15 | 40    | 3300      |

|                     |                    |                  |          |                   |              |
|---------------------|--------------------|------------------|----------|-------------------|--------------|
| FULL LOAD EFF: 87.5 | 3/4 LOAD EFF: 86.5 | 1/2 LOAD EFF: 84 | GTD. EFF | ELEC. TYPE        | NO LOAD AMPS |
| FULL LOAD PF: 71    | 3/4 LOAD PF: 64    | 1/2 LOAD PF: 51  | 86.5     | SQ CAGE INV RATED | 1.1          |

|             |                   |                |                |             |
|-------------|-------------------|----------------|----------------|-------------|
| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE    | B.D. TORQUE    | F.L. RISE°C |
| 6.7 LB-FT   | 11.6              | 11.4 LB-FT 170 | 19.5 LB-FT 292 | 45          |

|                           |             |              |            |                 |                 |                      |
|---------------------------|-------------|--------------|------------|-----------------|-----------------|----------------------|
| SOUND PRESSURE<br>@ 3 FT. | SOUND POWER | ROTOR WK^2   | MAX. WK^2  | SAFE STALL TIME | STARTS<br>/HOUR | APPROX. MOTOR<br>WGT |
| 55 dBA                    | 65 dBA      | 0.45 LB-FT^2 | 32 LB-FT^2 | 25 SEC.         | 2               | 105 LBS.             |

## \*\*\* 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            | RIGID         | HORIZONTAL<br>OR SHAFT<br>DOWN | FALSE          | NONE                  | FALSE         | NONE    | BLUE<br>(ENAMEL) |

| BEARINGS |      | GREASE     | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT<br>MATERIAL          | FRAME<br>MATERIAL |
|----------|------|------------|------------|------------|-------------|----------------------------|-------------------|
| DE       | OPE  |            |            |            |             |                            |                   |
| BALL     | BALL |            |            |            |             |                            |                   |
| 6206     | 6205 | POLYREX EM | JM         | NONE       | NONE        | 1045 HOT<br>ROLLED (C-204) | ROLLED STEEL      |

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

If Inverter equals NONE, contact factory for further  
information

|                                |
|--------------------------------|
| INVERTER TORQUE: 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      |

\*  
N  
O  
T  
E  
S  
\*

DATE: 06/27/2017 02:19:40 AM  
FORM 3531 REV.3 02/07/99  
\*\* Subject to change without notice.

## Data Sheet

Date: 19-06-2017

Customer:

Attention:

Submitted by: FAREEDA DUDEKULA

182TTFB6092



Submittal

Data @ 575 V

## Motor Load Data

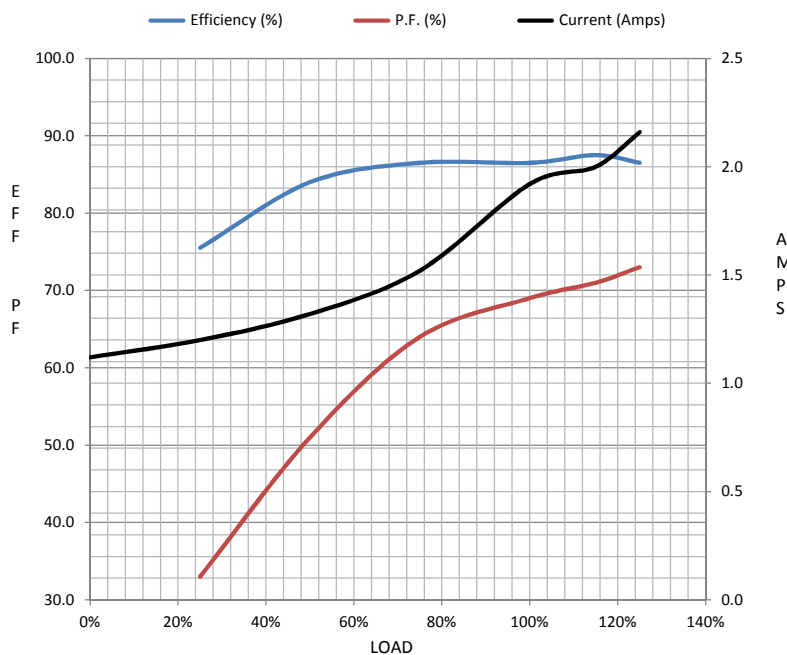
| Load           | 0%   | 25%  | 50%  | 75%  | 100% | 115%  | 125% | LR   |  |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 1.12 | 1.20 | 1.32 | 1.52 | 1.92 | 2.00  | 2.16 | 11.6 |  |
| Torque (ft-lb) | 0.00 | 1.60 | 3.3  | 5.0  | 6.7  | 7.7   | 8.4  | 11.4 |  |
| RPM            | 1200 | 1195 | 1190 | 1185 | 1180 | 1,178 | 1175 | 0    |  |
| Efficiency (%) |      | 75.5 | 84.0 | 86.5 | 86.5 | 87.5  | 86.5 |      |  |
| P.F. (%)       | 7.5  | 33.0 | 51.0 | 64.0 | 69.0 | 71.0  | 73.0 | 41.0 |  |

## Motor Speed Data

|                | LR   | Pull-Up | BD   | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM)    | 0    | 600     | 1140 | 1180  | 1200 |
| Current (Amps) | 11.6 | 10.4    | 6.8  | 1.92  | 1.12 |
| Torque (ft-lb) | 11.4 | 9.0     | 19.5 | 6.7   | 0.00 |

## Information Block

|                            |                  |         |         |          |
|----------------------------|------------------|---------|---------|----------|
| HP                         | 1.5              |         |         |          |
| Sync. RPM                  | 1200             |         |         |          |
| Frame                      | 182              |         |         |          |
| Enclosure                  | TEFC             |         |         |          |
| Construction               | TFC              |         |         |          |
| Voltage                    | 575 V            |         |         |          |
| Frequency                  | 60 Hz            |         |         |          |
| Design                     | B                |         |         |          |
| LR Code letter             | J                |         |         |          |
| Service Factor             | 1.15             |         |         |          |
| Temp Rise @ FL             | 45 ° C           |         |         |          |
| Duty                       | CONT             |         |         |          |
| Ambient                    | 40 ° C           |         |         |          |
| Elevation                  | 1,000 feet       |         |         |          |
| Rotor/Shaft wk²            | 0.45 Lb-Ft²      |         |         |          |
| Ref Wdg                    | CHT18260007 NONE |         |         |          |
| Sound Pressure @ 1M        | 55 dBA           |         |         |          |
| VFD Rating                 | VARIABLE 10:1    |         |         |          |
| Outline Dwg                | SS620560         |         |         |          |
| Conn. Diag                 | EE7300           |         |         |          |
| Additional Specifications: |                  |         |         |          |
| 0                          |                  |         |         |          |
| 365THFS8036                |                  |         |         |          |
| EQUIV CKT (OHMS / PHASE)   |                  |         |         |          |
| R1                         | R2               | X1      | X2      | Xm       |
| 5.3160                     | 2.9530           | 16.8330 | 22.7390 | 270.2110 |



## Speed - Torque Curve

