marathon®

# Multispeed Motors

**Model No:** 182TTDW7211
**Catalog No:** Y409A

Multispeed Motor, 2 & 0.89 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 182T Frame, DP

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# Product Information Packet: Model No: 182TTDW7211, Catalog No: Y409A  Multispeed Motor, 2 & 0.89 HP, 3 Ph, 60 & 60 Hz, 460 & 460 V, 1800 RPM, 182T Frame, DP

## Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **2 & 0.89 Hp** |
| Output KW | **1.5 & 0.66 kW** | Voltage | **460 & 460 V** |
| Speed | **1765 & 1170 r/min** | Synchronous RPM | **1800 & 1200 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **182T** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **80 & 75.5 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 60 Hz** | Current | **3.2 & 1.95 A** |
| Power Factor | **73.2** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **2VT** |
| KVA Code | **M** | Drive End Bearing Size | **6206** |
| Opp Drive End Bearing Size | **6205** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **22** | Number of Speeds | **2** |

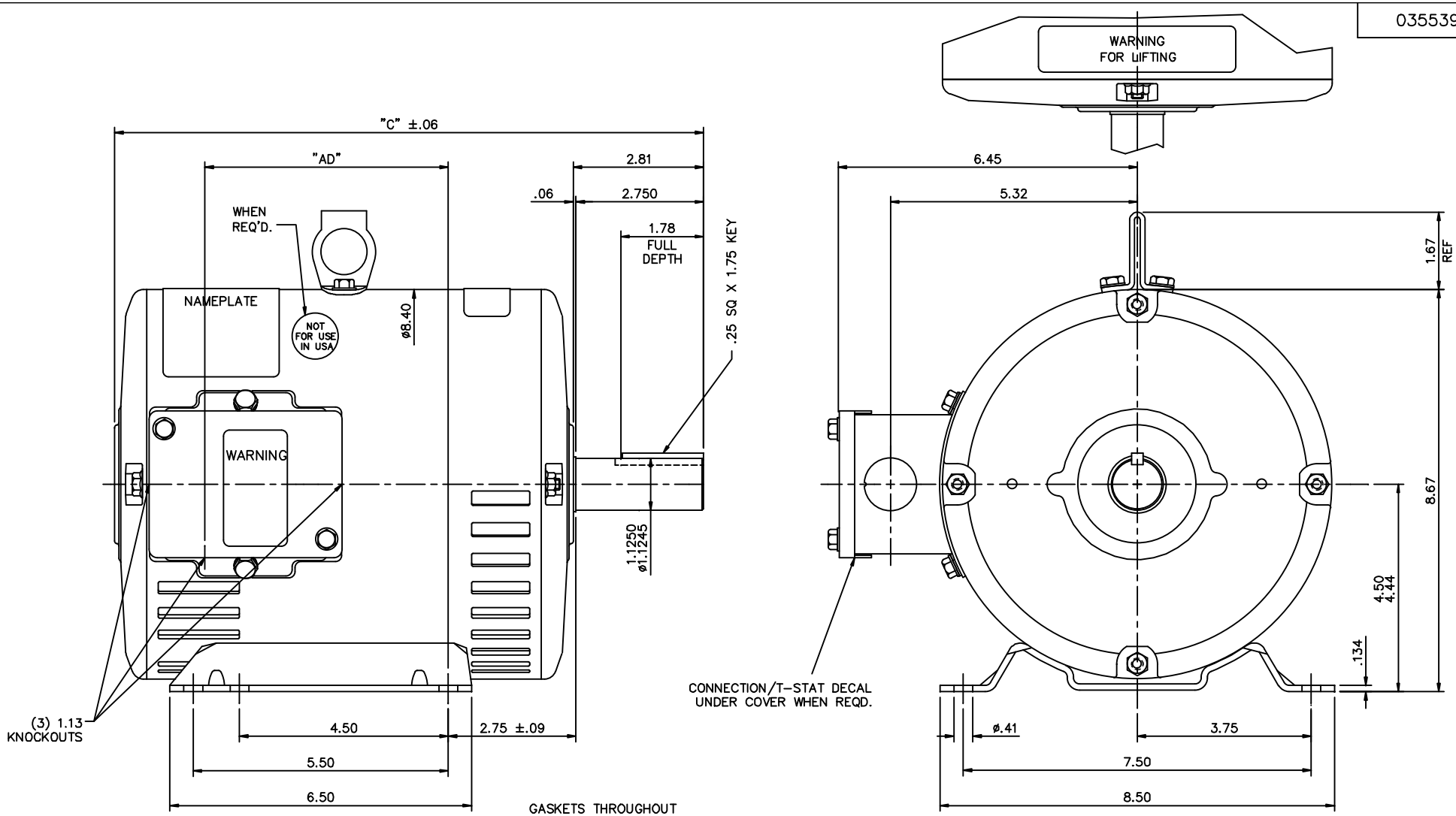
## Technical Specifications

| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **4//6** | Rotation | **Reversible** |
| Resistance Main | **5.345 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **T** | Overall Length | **12.69 in** |
| Frame Length | **8.5 in** | Shaft Diameter | **1 1/8 in** |
| Shaft Extension | **2.81 in** | Assembly/Box Mounting | **F1 Only** |

## Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **005046.01ME** | Outline Drawing | **035539-850** |

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GASKETS THROUGHOUT

| DASH NO. | "C" | "AD" |
|---|---|---|
| 850 | 12.69 | 5.25 |
| 900 | 13.19 | 5.75 |
| 950 | 13.69 | 6.25 |
| 1000 | 14.19 | 6.75 |
| 1050 | 14.69 | 7.25 |
| 1100 | 15.19 | 7.75 |
| 1150 | 15.69 | 8.25 |

| NO. | REVISION | BY & DATE | CHK |
|---|---|---|---|
| 02 | SHOWN "NOT FOR USE IN USA" DECAL LOCATION | JD 05/07/12 | |
| 01 | CHANGED TO NEW CONDUIT BOX 022737 | YS 03/19/08 | |

TOLERANCES UNLESS SPECIFIED
DEC. INCHES
.X ±.1
.XX ±.03
.XXX ±.005
.XXXX ±.0005
ANG ±1/2°

MARATHON ELECTRIC

TITLE: OUTLINE – 180T FRAME DRIP PROOF – RIGID
MAT'L.: GENERAL PURPOSE
FINISH:
CAD FILE: 035539

DRAWN YS 07/23/07
CHK
APPD
SCALE 1=2
REF 035464
FMF
PREV

RFP
DIST

SIZE B | DRAWING NO. 035539 | REV. 02

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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 182TTDW7211 AA | **WINDING#:** | T8(4-6)11 NONE 2 |
| **CONN. DIAGRAM:** | 005046.01ME | **ASSEMBLY:** | F1 ONLY |
| **OUTLINE:** | 035539-850 | | |

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 2&.89 | 1.49&.66 | 1800 | 1765&1170 | 182T | DP | M | 2VT |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/60 | 460 | 3.2&1.95 | ACROSS THE LINE | CONTINUOUS | F4 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 80&75.5 | 3/4 LOAD EFF: 77.7 | 1/2 LOAD EFF: 73.3 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| FULL LOAD PF: 73.2&57.3 | 3/4 LOAD PF: 64.6 | 1/2 LOAD PF: 51.7 | 77 | SQ CAGE IND RUN | 2.2 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 5.95 LB-FT | 23.5 | 13.13 LB-FT 221 | 23.7 LB-FT 398 | 60 |

| 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 LB-FT^2 | 0 LB-FT^2 | 10 SEC. | 2 | 80 LBS. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| STANDARD | STANDARD | RIGID | HORIZONTAL | FALSE | NONE | FALSE | NONE | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| DE | OPE | | | | | | |
| BALL 6206 | BALL 6205 | POLYREX EM | T | NONE | NONE | AISI 1045 (C-240) | 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: NONE
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

* NOTES *

DATE: 06/27/2017 01:55:50 AM
FORM 3531 REV.3 02/07/99
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