marathon®

# General Purpose Motors

**Model No:** 182TTDW16048
**Catalog No:** U425B

General Purpose Motor, 3 HP, 3 Ph, 60 Hz, 200-208 V, 1800 RPM, 182T Frame, DP

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## Product Information Packet: Model No: 182TTDW16048, Catalog No: U425B  General Purpose Motor, 3 HP, 3 Ph, 60 Hz, 200-208 V, 1800 RPM, 182T Frame, DP

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **3 Hp** |
| Output KW | **2.2 kW** | Voltage | **200-208 V** |
| Speed | **1760 r/min** | Synchronous RPM | **1800 r/min** |
| Service Factor | **1.15** | Frame | **182T** |
| Enclosure | **Drip Proof** | Thermal Protection | **Automatic** |
| Efficiency | **89.5 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 Hz** | Current | **9.0-8.85 A** |
| Power Factor | **79.3** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **K** | Drive End Bearing Size | **6206** |
| Opp Drive End Bearing Size | **6205** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **22** | Number of Speeds | **1** |

### Technical Specifications

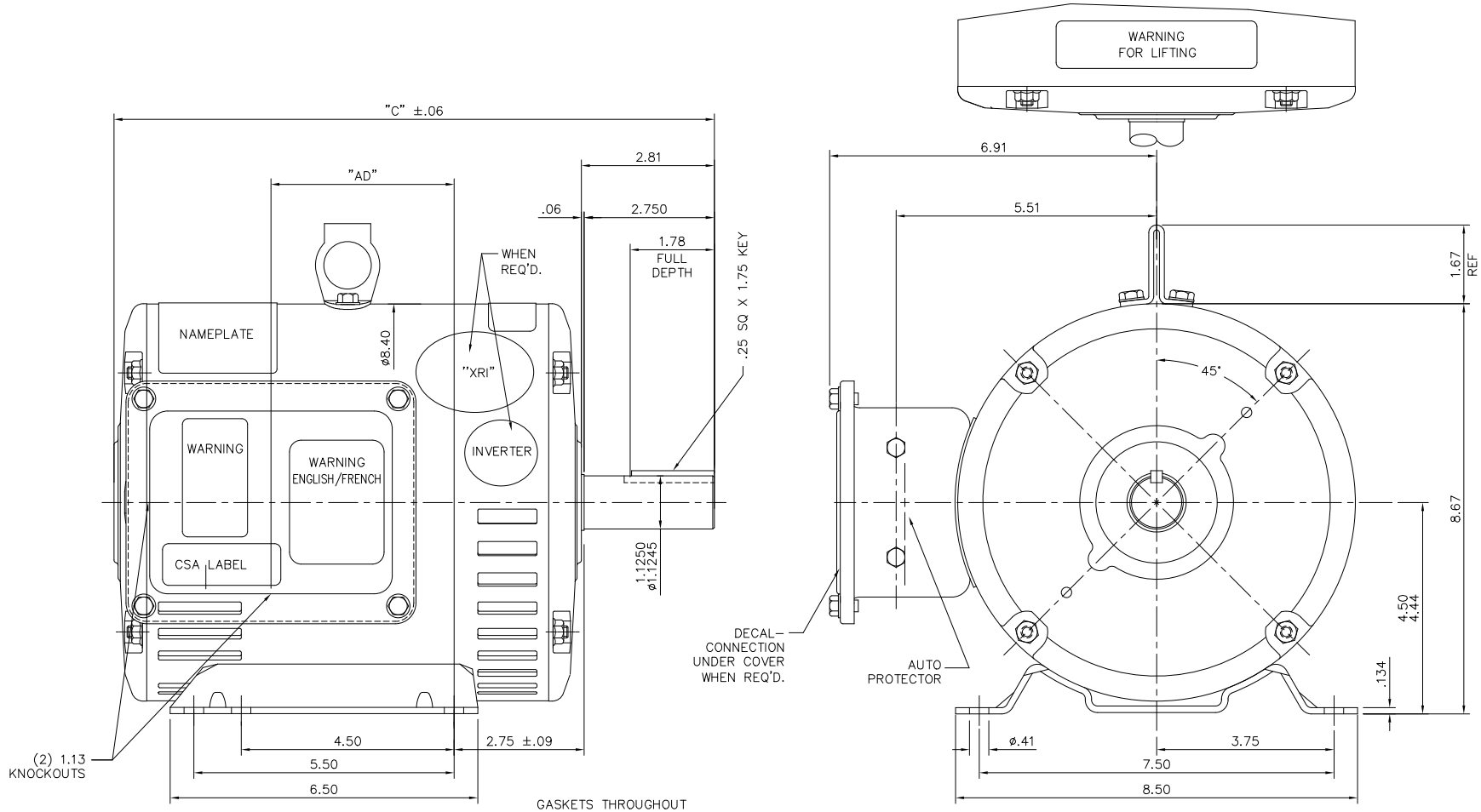
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **4** | Rotation | **Selective Clockwise** |
| Resistance Main | **3.89 O** | Mounting | **Rigid Base** |
| Motor Orientation | **Horizontal** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **T** | Overall Length | **13.19 in** |
| Frame Length | **9.0 in** | Shaft Diameter | **1 1/8 in** |
| Shaft Extension | **2.81 in** | Assembly/Box Mounting | **F1/F2 Capable** |

### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **005019.01ME** | Outline Drawing | **035658-900** |

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| DASH NO. | "C" | "AD" |
|---|---|---|
| 850 | 12.69 | 3.87 |
| 900 | 13.19 | 4.37 |
| 950 | 13.69 | 4.87 |
| 1000 | 14.19 | 5.37 |
| 1050 | 14.69 | 5.87 |
| 1100 | 15.19 | 6.37 |
| 1150 | 15.69 | 6.87 |
| 1200 | 16.19 | 7.37 |

| | | |
|---|---|---|
| DRAWING REVISION: J | REVISION BY: SB | REV DATE/ © DATE: 07/25/2025 |
| REQUEST NUMBER: CR-0023600 | APPROVED BY: SBD | DATE: 07/25/2025 |

REQUEST NUMBER DESCRIPTION
DRAWING TITLE BLOCK UPDATED

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TOLERANCES (EXCEPT AS NOTED):

| DEC. | INCH | mm | ANGLE |
|---|---|---|---|
| .X | ±0.1 | [±3] | ±7' 30" |
| .XX | ±0.03 | [±0.8] | |
| .XXX | ±0.005 | [±0.13] | |
| .XXXX | ±0.0005 | [±0.013] | |

REMOVE BURRS & BREAK SHARP
EDGES: .003/.015 [.08/.38] X 45 °
CORNER FILLETS: R.02 [.5]
MACHINED SURFACES: 200/INCH 5.1/mm
mm DIMENSIONS IN [BRACKETS]
ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY: YS | |
| DATE: 03/20/08 | |
| APPROVED BY: | |
| DATE: | |
| REFERENCE: 035621 | |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
OUTLINE
180T FRAME - DRIP PROOF - RIGID

MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: 035658 | SHEET: 1 OF 1

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# Data Sheet

Date: 6/29/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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182TTDW16048

Submittal

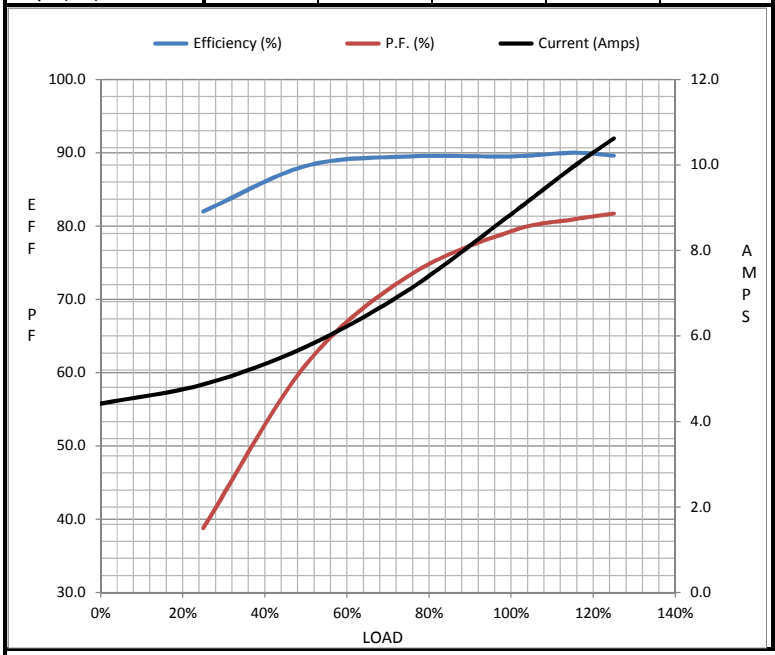
Data @ 208 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 4.4 | 4.9 | 5.8 | 7.1 | 8.9 | 10.0 | 10.6 | 75.6 | |
| Torque (ft-lb) | 0.00 | 2.19 | 4.4 | 6.6 | 8.9 | 10.3 | 11.2 | 22.0 | |
| RPM | 1800 | 1790 | 1779 | 1767 | 1760 | 1,752 | 1745 | 0 | |
| Efficiency (%) | | 82.0 | 88.2 | 89.5 | 89.5 | 90.0 | 89.6 | | |
| P.F. (%) | 6.9 | 38.8 | 61.1 | 73.2 | 79.3 | 80.9 | 81.7 | 50.5 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 330 | 1500 | 1760 | 1800 |
| Current (Amps) | 75.6 | 74.1 | 48.7 | 8.9 | 4.4 |
| Torque (ft-lb) | 22.0 | 14.8 | 35.8 | 8.9 | 0.00 |



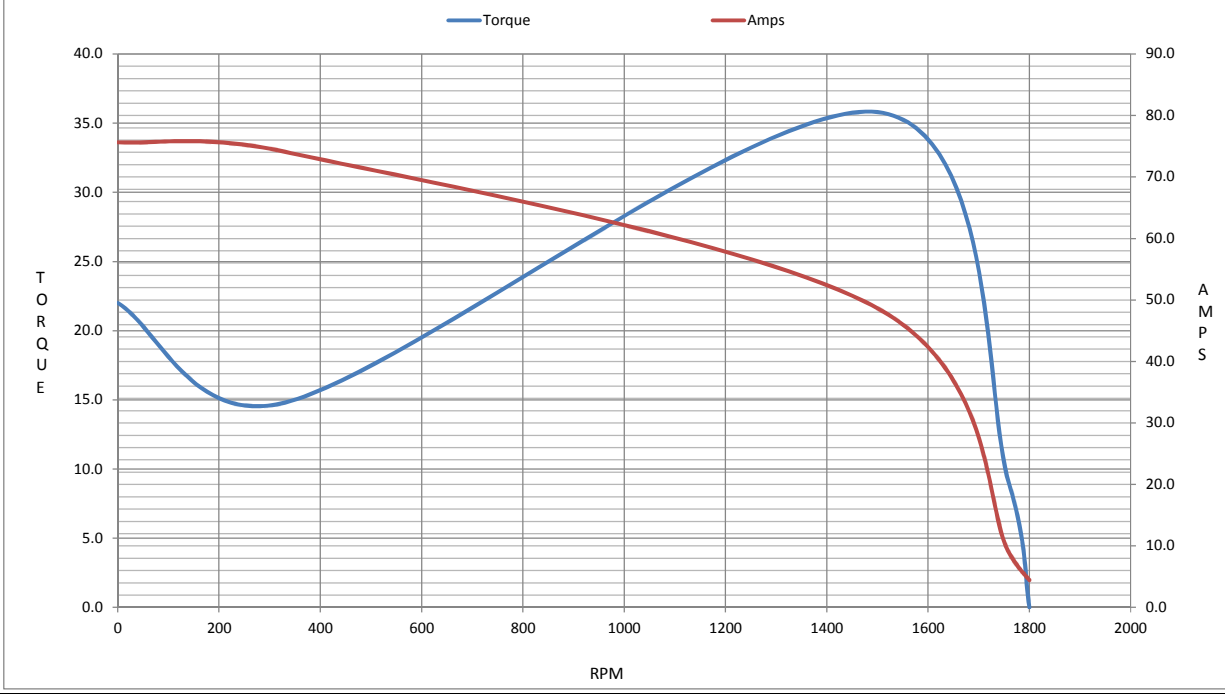

## Information Block

| | |
|---|---|
| HP | 3.0 |
| Sync. RPM | 1800 |
| Frame | 182 |
| Enclosure | DP |
| Construction | TDW |
| Voltage | 200-208 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | K |
| Service Factor | 1.15 |
| Temp Rise @ FL | 31 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 0.36 Lb-Ft² |
| Ref Wdg | T84173 DR |
| Sound Pressure @ 1M | 51 dBA |
| VFD Rating | NONE |
| Outline Dwg | 035658-900 |
| Conn. Diag | 005019.01ME |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

## Speed -Torque Curve



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 182TTDW16048 AA | **WINDING#:** | T84173 DR 11 |
| **CONN. DIAGRAM:** | 005019.01ME | **ASSEMBLY:** | F1/F2 CAPABLE |
| **OUTLINE:** | 035658-900 | | |

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 3 | 2.24 | 1800 | 1760 | 182T | DP | K | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60 | 200-208 | 9-8.85 | ACROSS THE LINE | CONTINUOUS | F4 | 1.15 | 40 | 3300 |

| FULL LOAD EFF: 86.5 | 3/4 LOAD EFF: 89.5 | 1/2 LOAD EFF: 88.2 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| FULL LOAD PF: 79 | 3/4 LOAD PF: 73.2 | 1/2 LOAD PF: 61.1 | 88.5 | SQ CAGE IND RUN | 4.4 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 8.9 LB-FT | 75.6 | 22 LB-FT 247 | 35.8 LB-FT 402 | 31 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 51 dBA | 61 dBA | 0.357 LB-FT^2 | 55 LB-FT^2 | 15 SEC. | 2 | 0 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 | BALL | POLYREX EM | T | NONE | NONE | 1144 STRESSPROOF (C-223) | ROLLED STEEL |
| 206 | 205 | | | | | | |

| THERMO-PROTECTORS | | | | THERMISTORS | CONTROL | SPACE /n HEATERS |
|---|---|---|---|---|---|---|
| THERMOSTATS | PROTECTORS | WDG RTDs | BRG RTDs | | | |
| NONE | AUTOMATIC | 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

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DATE: 06/27/2017 01:43:49 AM
FORM 3531 REV.3 02/07/99
** Subject to change without notice.