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# Close-Coupled Pump Motors

**Model No:** 182TTDW16021
**Catalog No:** E153B

Close-Coupled Pump Motor, 5 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182JMV Frame, DP

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## Product Information Packet: Model No: 182TTDW16021, Catalog No: E153B  Close-Coupled Pump Motor, 5 & 5 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 RPM, 182JMV Frame, DP

### Nameplate Specifications

| | | | |
|---|---|---|---|
| Phase | **3** | Output HP | **5 & 5 Hp** |
| Output KW | **3.7 & 3.7 kW** | Voltage | **230/460 & 190/380 V** |
| Speed | **3500 & 2868 r/min** | Synchronous RPM | **3600 & 3000 r/min** |
| Service Factor | **1.15 & 1.15** | Frame | **182JMV** |
| Enclosure | **Drip Proof** | Thermal Protection | **No Protection** |
| Efficiency | **86.5 & 83 %** | Ambient Temperature | **40 °C** |
| Frequency | **60 & 50 Hz** | Current | **12.5/6.3 & 15.2/7.6 A** |
| Power Factor | **86** | Duty | **Continuous** |
| Insulation Class | **F** | Design Code | **B** |
| KVA Code | **J** | Drive End Bearing Size | **6207** |
| Opp Drive End Bearing Size | **6205** | UL | **Recognized** |
| CSA | **Y** | CE | **Y** |
| IP Code | **12** | Number of Speeds | **1** |

### Technical Specifications

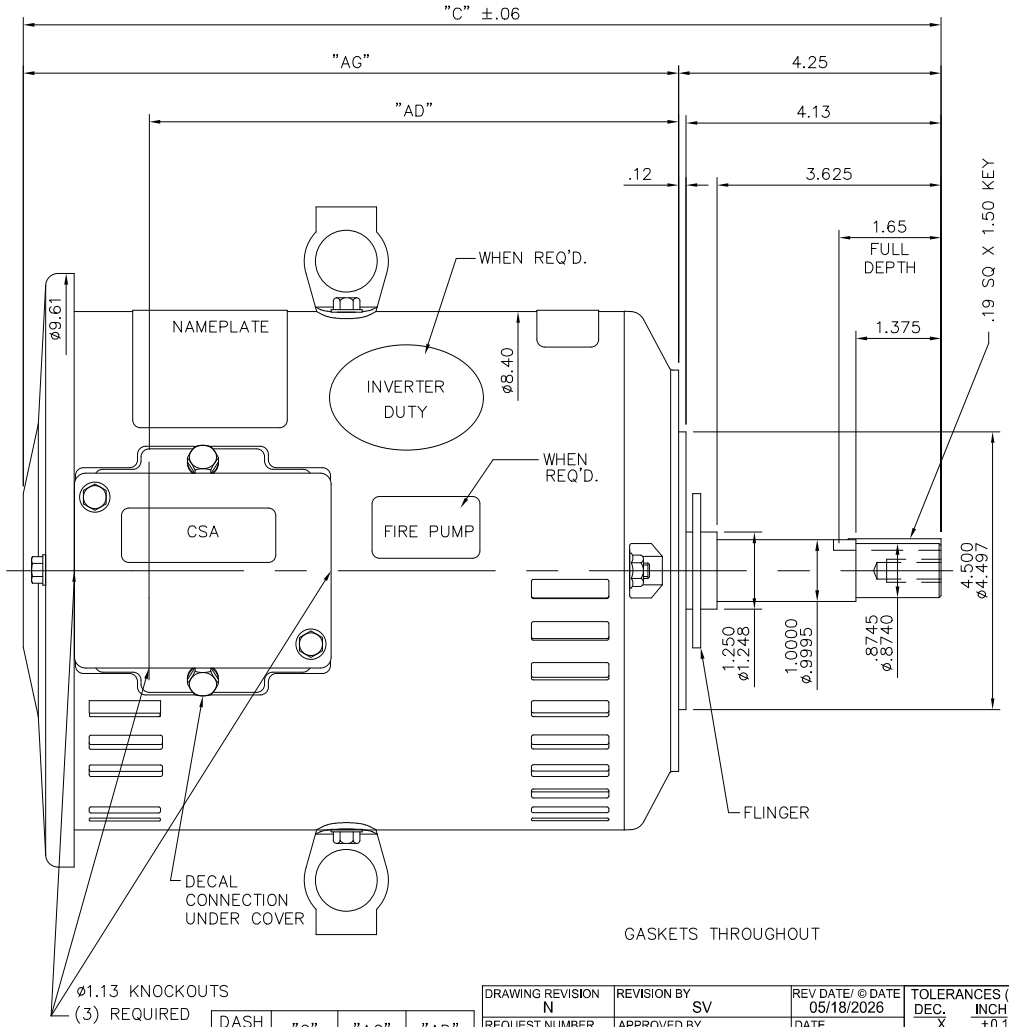
| | | | |
|---|---|---|---|
| Electrical Type | **Squirrel Cage Induction Run** | Starting Method | **Across The Line** |
| Poles | **2** | Rotation | **Selective Clockwise** |
| Resistance Main | **2.55 O** | Mounting | **Round** |
| Motor Orientation | **Shaft Down** | Drive End Bearing | **Ball** |
| Opp Drive End Bearing | **Ball** | Frame Material | **Rolled Steel** |
| Shaft Type | **JM** | Overall Length | **14.95 in** |
| Frame Length | **9.0 in** | Shaft Diameter | **7/8 in** |
| Shaft Extension | **4.25 in** | Assembly/Box Mounting | **F1 Only** |

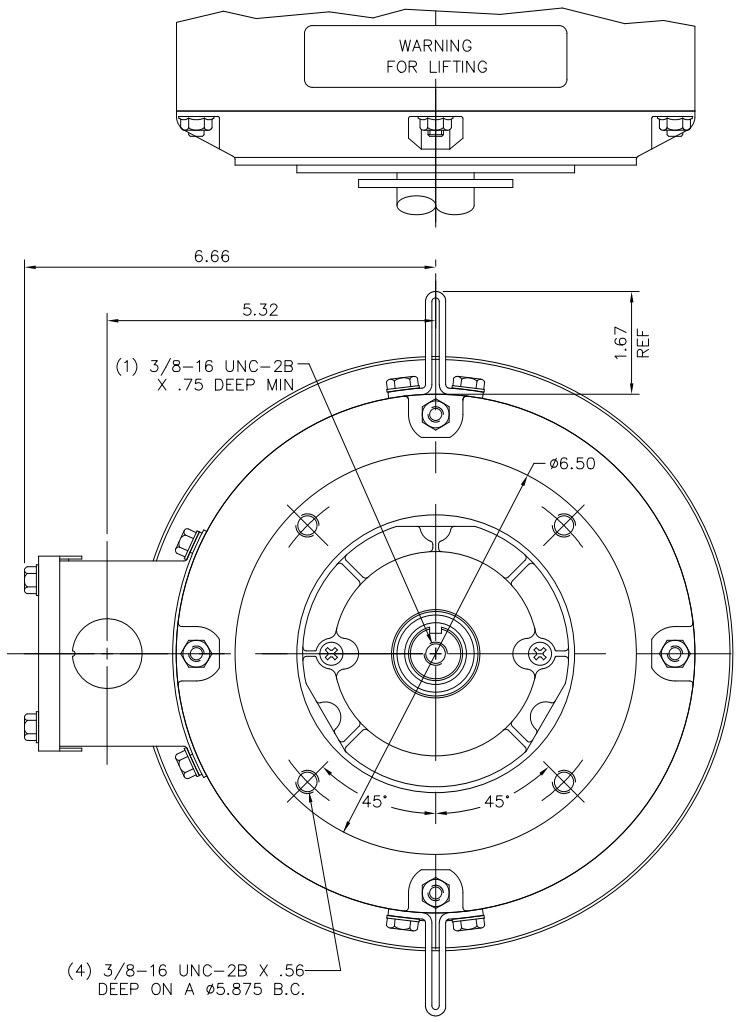
### Drawings

| | | | |
|---|---|---|---|
| Connection Drawing | **005010.01** | Outline Drawing | **035547-900** |

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ø1.13 KNOCKOUTS
(3) REQUIRED

| DASH NO. | "C" | "AG" | "AD" |
|---|---|---|---|
| 850 | 14.45 | 10.20 | 8.13 |
| 900 | 14.95 | 10.70 | 8.63 |
| 950 | 15.45 | 11.20 | 9.13 |
| 1000 | 15.95 | 11.70 | 9.63 |
| 1050 | 16.45 | 12.20 | 10.13 |
| 1100 | 16.95 | 12.70 | 10.63 |
| 1150 | 17.45 | 13.20 | 11.13 |

MAXIMUM FACE RUNOUT TO BE .004 T.I.R.
MAXIMUM PILOT ECCENTRICITY TO BE .004 T.I.R.

| | | |
|---|---|---|
| DRAWING REVISION: N | REVISION BY: SV | REV DATE/ © DATE: 05/18/2026 |
| REQUEST NUMBER: CR-0026322 | APPROVED BY: RMS | DATE: 05/19/2026 |

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/ 5.1/
INCH / mm
mm DIMENSIONS IN [BRACKETS] ARE FOR REFERENCE ONLY

| | |
|---|---|
| DRAWN BY | VV |
| DATE | 18/08/07 |
| APPROVED BY | YS |
| DATE | 18/08/07 |
| REFERENCE | 035488 |
| THIRD ANGLE PROJECTION | |

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DESCRIPTION
OUTLINE
180JM FRAME DRIP PROOF- "C" FACE- JM PUMP

MATERIAL | PROCESS/FINISH

SIZE B | DRAWING NUMBER 035547 | SHEET 1 OF 1

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# Data Sheet

Date: 6/20/2017
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

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182TTDW16021

**Submittal**

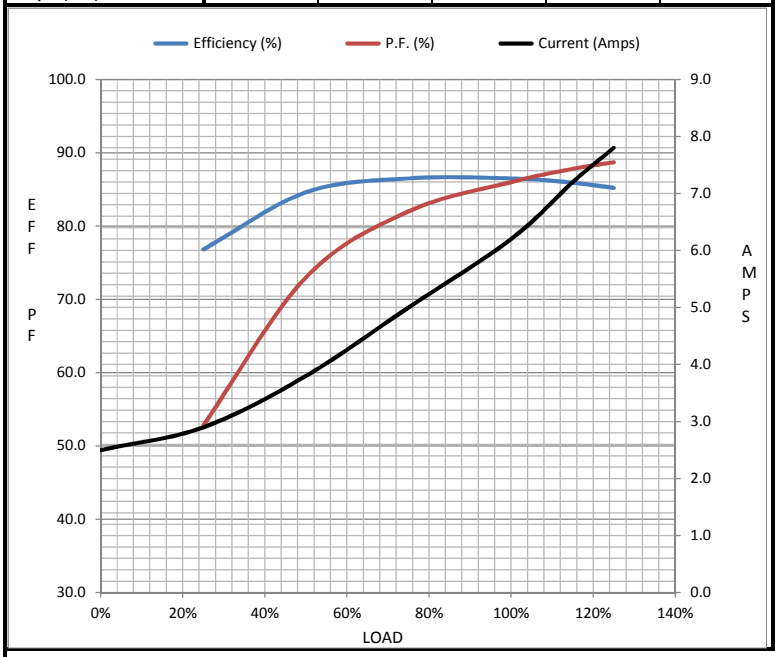
Data @ 460 V

## Motor Load Data

| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|---|---|---|---|---|---|---|---|---|---|
| Current (Amps) | 2.50 | 2.90 | 3.8 | 5.0 | 6.2 | 7.2 | 7.8 | 45.5 | |
| Torque (ft-lb) | 0.00 | 1.80 | 3.7 | 5.6 | 7.5 | 8.7 | 9.5 | 16.1 | |
| RPM | 3600 | 3576 | 3552 | 3526 | 3500 | 3,478 | 3465 | 0 | |
| Efficiency (%) | | 76.8 | 84.6 | 86.5 | 86.5 | 85.9 | 85.2 | | |
| P.F. (%) | 13.0 | 52.8 | 73.0 | 82.0 | 86.0 | 87.8 | 88.7 | 55.5 | |

## Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|---|---|---|---|---|---|
| Speed (RPM) | 0 | 1800 | 2900 | 3500 | 3600 |
| Current (Amps) | 45.5 | 41.0 | 28.9 | 6.2 | 2.50 |
| Torque (ft-lb) | 16.1 | 14.5 | 25.0 | 7.5 | 0.00 |

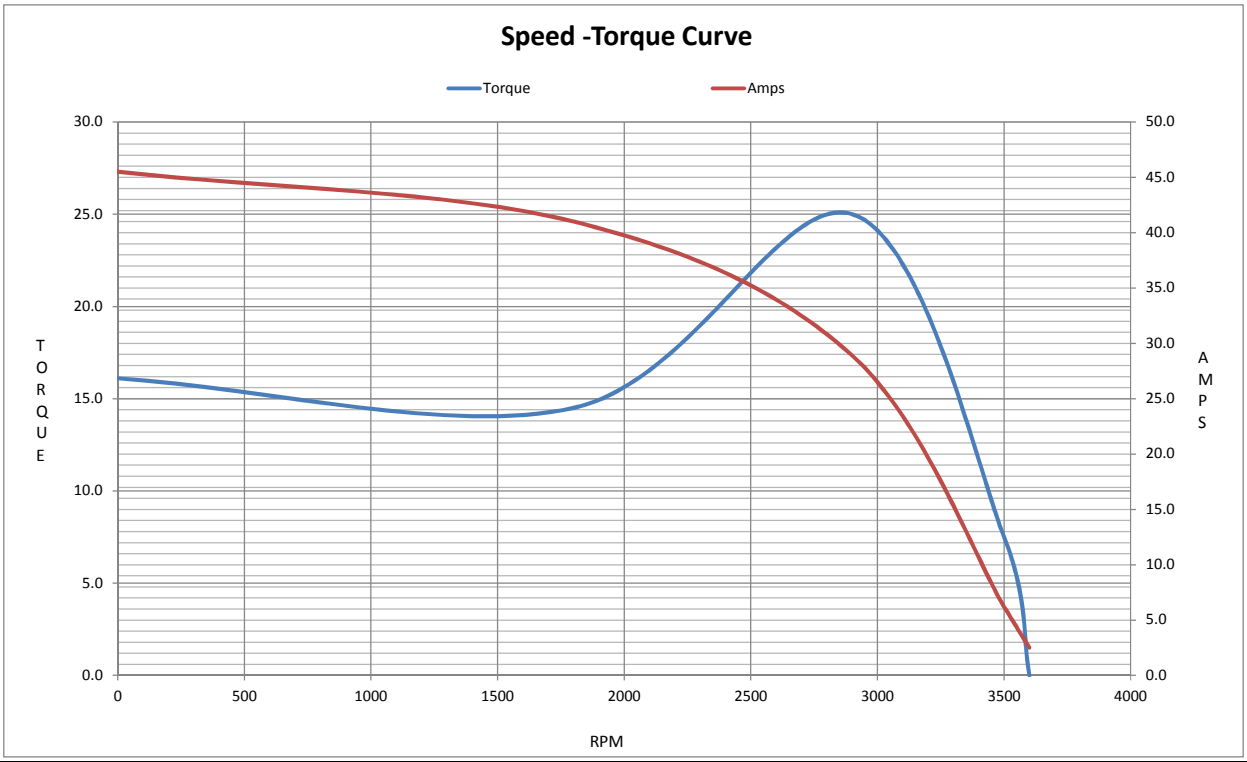



## Information Block

| | |
|---|---|
| HP | 5.0 |
| Sync. RPM | 3600 |
| Frame | 182 |
| Enclosure | DP |
| Construction | TDW |
| Voltage | 230/460#190/380 V |
| Frequency | 60 Hz |
| Design | B |
| LR Code letter | J |
| Service Factor | 1.15 |
| Temp Rise @ FL | 30 ° C |
| Duty | CONT |
| Ambient | 40 ° C |
| Elevation | 1,000 feet |
| Rotor/Shaft wk² | 0.18 Lb-Ft² |
| Ref Wdg | T82117 R1 |
| Sound Pressure @ 1M | 71 dBA |
| VFD Rating | NONE |
| Outline Dwg | 035547-900 |
| Conn. Diag | 005010.01 |
| Additional Specifications: | |
| 0 | |
| 0 | |

EQUIV CKT (OHMS / PHASE)

| R1 | R2 | X1 | X2 | Xm |
|---|---|---|---|---|
| 1.3270 | 1.2190 | 3.0560 | 1.6670 | 97.8640 |



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## CERTIFICATION DATA SHEET

| | | | |
|---|---|---|---|
| **Model#:** | 182TTDW16021 AA | **WINDING#:** | T82117 R1 3 |
| **CONN. DIAGRAM:** | 005010.01 | **ASSEMBLY:** | F1 ONLY |
| **OUTLINE:** | 035547-900 | | |

## TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|---|---|---|---|---|---|---|---|
| 5&5 | 3.7&3.7 | 3600 | 3500&2865 | 182JMV | DP | J | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|---|---|---|---|---|---|---|---|---|---|
| 3 | 60/50 | 230/460#190/380 | 12.4/6.2&15.2/7.6 | ACROSS THE LINE | CONTINUOUS | F4 | 1.15/1.15 | 40 | 3300 |

| FULL LOAD EFF: 86.5&83 | 3/4 LOAD EFF: 86.5 | 1/2 LOAD EFF: 84.6 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
|---|---|---|---|---|---|
| FULL LOAD PF: 86&88 | 3/4 LOAD PF: 82 | 1/2 LOAD PF: 73 | 83.8 | SQ CAGE IND RUN | 5 / 2.5 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|---|---|---|---|---|
| 7.5 LB-FT | 91 / 45.5 | 16.1 LB-FT 215 | 25 LB-FT 333 | 30 |

| SOUND PRESSURE @ 3 FT. | SOUND POWER | ROTOR WK^2 | MAX. WK^2 | SAFE STALL TIME | STARTS /HOUR | APPROX. MOTOR WGT |
|---|---|---|---|---|---|---|
| 71 dBA | 81 dBA | 0.18 LB-FT^2 | 7 LB-FT^2 | 15 SEC. | 2 | 64 LBS. |

## *** SUPPLEMENTAL INFORMATION ***

| DE BRACKET TYPE | ODE BRACKET TYPE | MOUNT TYPE | ORIENTATION | SEVERE DUTY | HAZARDOUS LOCATION | DRIP COVER | SCREENS | PAINT |
|---|---|---|---|---|---|---|---|---|
| C-FACE | STANDARD | ROUND | SHAFT DOWN | FALSE | NONE | TRUE | NONE | BLUE (ENAMEL) |

| BEARINGS | | GREASE | SHAFT TYPE | SPECIAL DE | SPECIAL ODE | SHAFT MATERIAL | FRAME MATERIAL |
|---|---|---|---|---|---|---|---|
| DE | OPE | | | | | | |
| BALL | BALL | POLYREX EM | JM | NONE | NONE | AISI 1045 (C-240) | ROLLED STEEL |
| 6207 | 6205 | | | | | | |

| 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

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** Subject to change without notice.