

PRODUCT INFORMATION PACKET

marathon®
Motors

Model No: 182TTDR4125

Catalog No: U169

5 HP Close-Coupled Pump Motor, 3 phase, 3600 RPM, 575 V, 182JPV Frame, ODP
Close-Coupled Pump Motors



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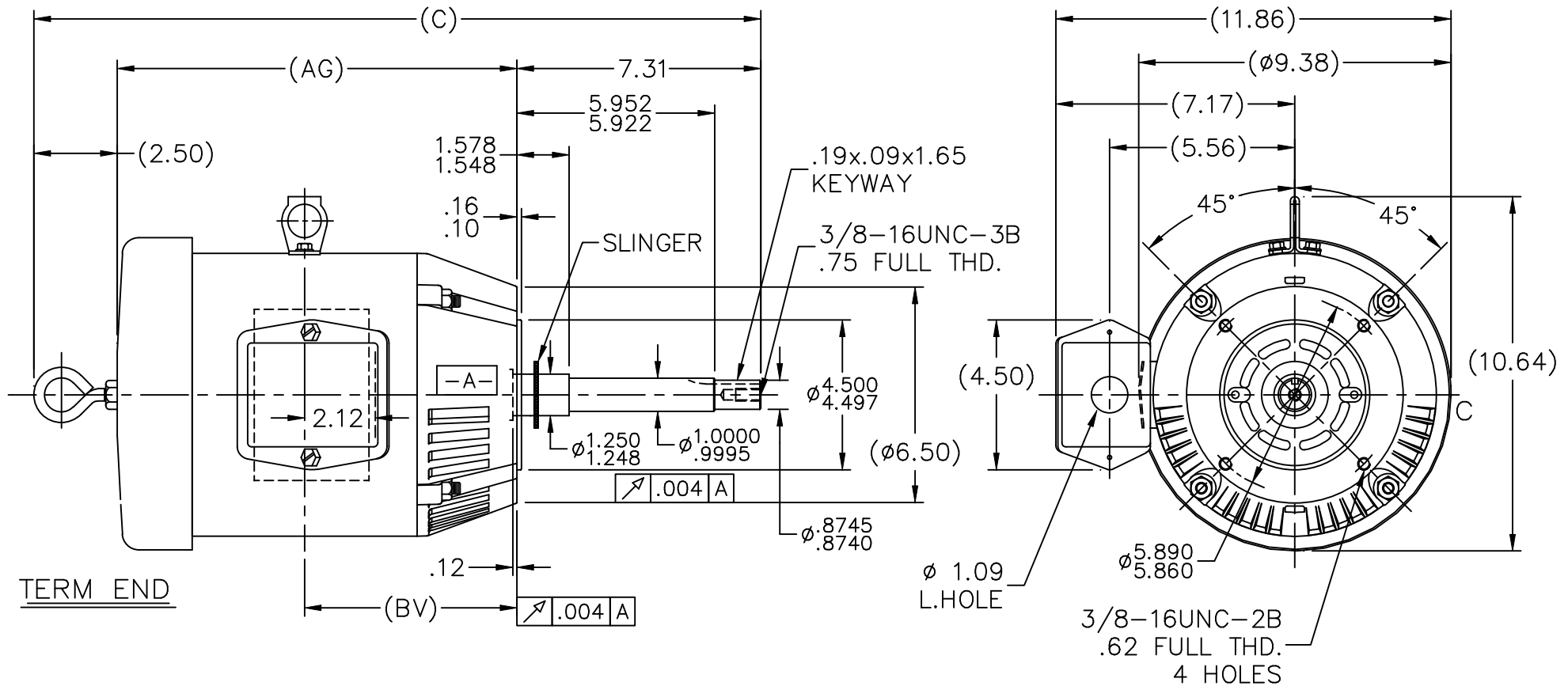
RegalRexnord

Nameplate Specifications

| | | | |
|------------------------|------------|----------------------------|------------|
| Output HP | 5 Hp | Output KW | 3.7 kW |
| Frequency | 60 Hz | Voltage | 575 V |
| Current | 4.8 A | Speed | 3475 rpm |
| Service Factor | 1.15 | Phase | 3 |
| Efficiency | 86.5 % | Power Factor | 89 |
| Duty | Continuous | Insulation Class | B |
| Design Code | B | KVA Code | J |
| Frame | 182JPV | Enclosure | Drip Proof |
| Thermal Protection | No | Ambient Temperature | 40 °C |
| Drive End Bearing Size | 6307 | 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 | 2 | Rotation | Reversible |
| Resistance Main | 2.8 Ohms | Mounting | Round |
| Motor Orientation | Shaft Down | Drive End Bearing | Ball |
| Opp Drive End Bearing | Ball | Frame Material | Rolled Steel |
| Shaft Type | JP | Overall Length | 21.94 in |
| Frame Length | 6.75 in | Shaft Diameter | 0.875 in |
| Shaft Extension | 7.31 in | Assembly/Box Mounting | F1/F2 CAPABLE |
| Connection Drawing | A-EE7300 | Outline Drawing | A-SS67319-675 |



| DASH | FR. | C | AG | BV | |
|------|--------|-------|-------|------|--|
| 575 | 182T | 20.94 | 11.53 | 5.88 | |
| 675 | 182/4T | 21.94 | 12.53 | 6.38 | |
| 725 | 182/4T | 22.44 | 13.03 | 6.63 | |
| 775 | 182/4T | 22.94 | 13.53 | 6.88 | |
| 825 | 182/4T | 23.44 | 14.03 | 7.13 | |

NOTES:

- COND. BOX CAN BE ROTATED IN 90° STEPS.
- NAMEPLATE TO BE READ FROM SHAFT EXT. END OF MOTOR LOCATED @ 'C'.

| NO. | REVISION | BY & DATE | CHK | ANG | ±7'30" |
|-----|---|----------------|-------|--------|--------|
| 8 | REVISE THE 'C' DIM AND DIM. LINE LOCATION ECN9276 | RWR 09-11-2006 | ML | DEC. | INCHES |
| 7 | ADDED NEW LIFT LUG CN 34025 | DRS 08-22-2001 | .X | ±.1 | |
| 6 | REVISED, -675 & -775 FR. WAS 184T CN27400-320 | CAE 11-02-1999 | .XX | ±.03 | |
| 5 | ADDED MOUNTING TYPE CN 27451 | DRS 05-03-1999 | .XXX | ±.005 | |
| 4 | REDRAWN ON CADD | MH 01-31-1997 | .XXXX | ±.0005 | |

| TOLERANCES UNLESS SPECIFIED | ML | DEC. | INCHES |
|-----------------------------|--------|------|--------|
| .X | ±.1 | | |
| .XX | ±.03 | | |
| .XXX | ±.005 | | |
| .XXXX | ±.0005 | | |
| ±7'30" | | | |



TITLE OUTLINE
180T FR.-BB-TS-VERT. DR.PR.-JP EXT.

MAT'L.
FINISH

| | |
|----------|------------|
| DRAWN MH | 01-29-1997 |
| CHK ML | 01-31-1997 |
| APPD GK | 01-31-1997 |
| SCALE | 7=32 |
| REF | |
| FMF | |
| PREV | |

| | | | | | |
|---------|------------------|--------|---------------------|---------|--------|
| RFP | CAD FILE ss67319 | SIZE A | DRAWING NO. SS67319 | PAGE OF | REV. 8 |
| DIST LB | | | | | |

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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 AB | REVISION BY JJB | DATE 06-27-2017 |
| ECO ECO-0125361 | APPROVED BY TB | DATE 06-27-2017 |
| ECO DESCRIPTION UPDATED TO CURRENT STANDARDS | | |
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| |
|---------------------------|
| DRAWN BY DA |
| DATE 03-26-1993 |
| APPROVED BY TB |
| DATE 03-26-1993 |
| REFERENCE |
| THIRD ANGLE PROJECTION |



Regal Beloit America, Inc.

DESCRIPTION
CONNECTION DIAGRAM
EXTERNAL - SINGLE VOLTAGE - 3Ø MOTOR

MATERIAL PROCESS/FINISH

| | | |
|-----------|--------------------------|-----------------|
| SIZE A | DRAWING NUMBER EE7300 | SHEET 1 OF 1 |
|-----------|--------------------------|-----------------|

CERTIFICATION DATA SHEET

Model#: 182TTDR4125 AP
 CONN. DIAGRAM: A-EE7300
 OUTLINE: A-SS67319-675

WINDING#: K182264 NONE 5
 ASSEMBLY: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

| HP | KW | SYNC. RPM | F.L. RPM | FRAME | ENCLOSURE | KVA CODE | DESIGN |
|----|------|-----------|----------|--------|-----------|----------|--------|
| 5 | 3.70 | 3600 | 3475 | 182JPV | DP | J | B |

| PH | Hz | VOLTS | FL AMPS | START TYPE | DUTY | INSL | S.F | AMB°C | ELEVATION |
|----|----|-------|---------|-----------------|------------|------|------|-------|-----------|
| 3 | 60 | 575 | 4.8 | ACROSS THE LINE | CONTINUOUS | B3 | 1.15 | 40 | 3300 |

| | | | | | |
|---------------------|--------------------|--------------------|----------|-----------------|--------------|
| FULL LOAD EFF: 86.5 | 3/4 LOAD EFF: 87.5 | 1/2 LOAD EFF: 87.5 | GTD. EFF | ELEC. TYPE | NO LOAD AMPS |
| FULL LOAD PF: 89 | 3/4 LOAD PF: 86 | 1/2 LOAD PF: 78 | 84 | SQ CAGE IND RUN | 1.3 |

| F.L. TORQUE | LOCKED ROTOR AMPS | L.R. TORQUE | B.D. TORQUE | F.L. RISE°C |
|-------------|-------------------|--------------|--------------|-------------|
| 7.5 LB-FT | 36.8 | 16 LB-FT 213 | 23 LB-FT 307 | 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 | 0.24 LB-FT^2 | 7 LB-FT^2 | 15 SEC. | 2 | 80 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 | | | | | | |
| 6307 | 6205 | POLYREX EM | JP | NONE | NONE | 1144 STRESSPROOF (C-223) | 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

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N
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| |
|---------------------------|
| 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 |

DATE: 06/27/2017 01:36:54 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



182TTDR4125

Submittal

Data @ 575 V

Motor Load Data

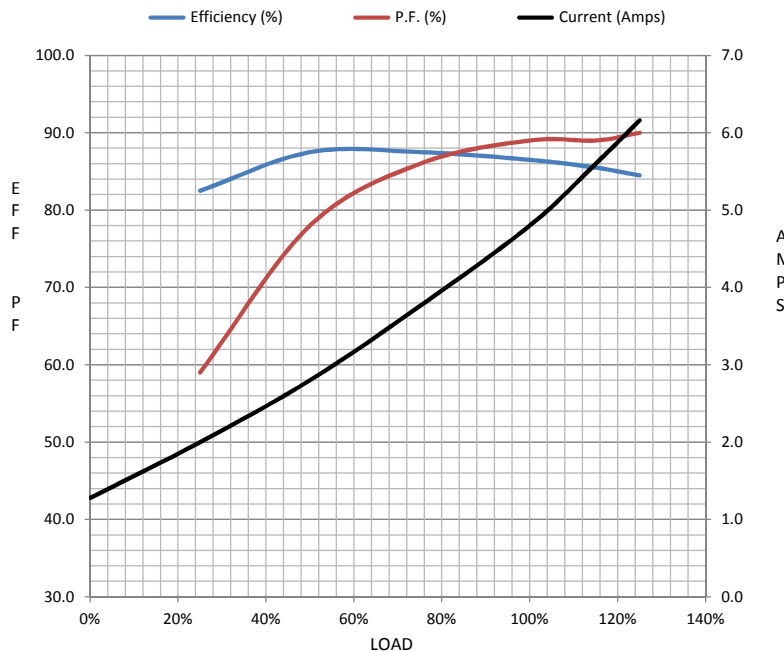
| Load | 0% | 25% | 50% | 75% | 100% | 115% | 125% | LR | |
|----------------|------|------|------|------|------|-------|------|------|--|
| Current (Amps) | 1.28 | 2.00 | 2.80 | 3.8 | 4.8 | 5.6 | 6.2 | 36.8 | |
| Torque (ft-lb) | 0.00 | 1.90 | 3.7 | 5.6 | 7.5 | 8.7 | 9.5 | 16.0 | |
| RPM | 3600 | 3570 | 3540 | 3505 | 3475 | 3,445 | 3430 | 0 | |
| Efficiency (%) | | 82.5 | 87.5 | 87.5 | 86.5 | 85.5 | 84.5 | | |
| P.F. (%) | 18.0 | 59.0 | 78.0 | 86.0 | 89.0 | 89.0 | 90.0 | 50.0 | |

Motor Speed Data

| | LR | Pull-Up | BD | Rated | Idle |
|----------------|------|---------|------|-------|------|
| Speed (RPM) | 0 | 1000 | 2950 | 3475 | 3600 |
| Current (Amps) | 36.8 | 32.8 | 21.6 | 4.8 | 1.28 |
| Torque (ft-lb) | 16.0 | 15.0 | 23.0 | 7.5 | 0.00 |

Information Block

| | | | | |
|----------------------------|---------------|--------|--------|----------|
| HP | 5.0 | | | |
| Sync. RPM | 3600 | | | |
| Frame | 182 | | | |
| Enclosure | DP | | | |
| Construction | TDR | | | |
| Voltage | 575 V | | | |
| Frequency | 60 Hz | | | |
| Design | B | | | |
| LR Code letter | J | | | |
| Service Factor | 1.15 | | | |
| Temp Rise @ FL | 35 ° C | | | |
| Duty | CONT | | | |
| Ambient | 40 ° C | | | |
| Elevation | 1,000 feet | | | |
| Rotor/Shaft wk² | 0.24 Lb-Ft² | | | |
| Ref Wdg | K182264 NONE | | | |
| Sound Pressure @ 1M | 71 dBA | | | |
| VFD Rating | NONE | | | |
| Outline Dwg | A-SS67319-675 | | | |
| Conn. Diag | A-EE7300 | | | |
| Additional Specifications: | | | | |
| 0 | | | | |
| 365THFS8036 | | | | |
| EQUIV CKT (OHMS / PHASE) | | | | |
| R1 | R2 | X1 | X2 | Xm |
| 3.0560 | 2.1970 | 7.3800 | 4.0040 | 209.0810 |



Speed -Torque Curve

