



## Product Information Packet

# D5003R

3HP,1750RPM,DC,1811ATZ,DPG,

| Part Detail |    |             |       |                |    |               |            |
|-------------|----|-------------|-------|----------------|----|---------------|------------|
| Revision:   | F  | Status:     | PRD/A | Change #:      |    | Proprietary:  | No         |
| Type:       | DC | Prod. Type: |       | Elec. Spec:    |    | CD Diagram:   |            |
| Enclosure:  |    | Mfg Plant:  |       | Mech. Spec:    |    | Layout:       | 609980-001 |
| Frame:      |    | Mounting:   |       | Poles:         | 00 | Created Date: | 02-17-2014 |
| Base:       |    | Rotation:   | R     | Insulation:    |    | Eff. Date:    | 10-28-2016 |
| Field Type: |    | Literature: |       | Elec. Diagram: |    | Replaced By:  |            |

| Specs                     |                         |  |  |
|---------------------------|-------------------------|--|--|
| Frame:                    | C1811ATZ                |  |  |
| Frame Material:           | Exposed Laminations     |  |  |
| Agency Approvals:         | CCSA US                 |  |  |
| Base Indicator:           | Rigid                   |  |  |
| Bearing Grease Type:      | Polyrex EM (-20F +300F) |  |  |
| Drip Cover:               | No Drip Cover           |  |  |
| Feedback Device:          | NO FEEDBACK             |  |  |
| Frame Prefix:             | C                       |  |  |
| Heater Indicator:         | No Heater               |  |  |
| Insulation Class:         | F                       |  |  |
| Lifting Lugs:             | Standard Lifting Lugs   |  |  |
| Shaft Extension Location: | Pulley End              |  |  |
| Shaft Ground Indicator:   | No Shaft Grounding      |  |  |
| Shaft Slinger Indicator:  | No Slinger              |  |  |
| Motor Standards:          | NEMA                    |  |  |

Nameplate 000613006HP

|                 |            |             |            |       |      |
|-----------------|------------|-------------|------------|-------|------|
| CAT.NO.         | D5003R     | SPEC NO.    | T18R1333   |       |      |
| FR              | C1811ATZ   | HP          | 3          | DUTY  | CONT |
| ENCL.           | DP         | RPM         | 1750/ 2300 | S.F.  | 1.0  |
| ENCL MOD        |            | VOLTS       | 500        | INSUL | F    |
| MAX SAFE SPEED  |            | AMPS        | 5.20       | AMB.  | 40   |
|                 |            | SER.NO.     |            |       |      |
|                 | FIELD DATA | POWER CODE  | D          |       |      |
| WINDING         | STR. SHUNT | D.E. BRG.   | 40BC02J30X |       |      |
| VOLTS           | 300        | O.D.E. BRG. | 30BC02J30X |       |      |
| MAX AMPS @ 25 C |            | MIN. AMB.   |            | TYPE  |      |
| HOT AMPS        |            |             |            |       |      |
|                 |            |             |            |       |      |
|                 |            |             |            |       |      |

| Parts List  |                                          |          |
|-------------|------------------------------------------|----------|
| Part Number | Description                              | Quantity |
| SA281187    | SA T18R1333                              | 1.000 EA |
| AA015355    | AA T18R1333                              | 1.000 EA |
| 000613006HP | NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO | 1.000 EA |
| 000692000FP | NP, WARNING LIFT INSTRUCTIONS            | 1.000 EA |
| 000692000FS | WARNING LABEL                            | 1.000 EA |
| 036170004EA | ROUND HEAD DRIVE SCREW                   | 6.000 EA |
| 406770006   | C/D TAG STRAIGHT SHUNT                   | 1.000 EA |
| 609831002A  | ENLAM                                    | 2.000 EA |
| 609844001A  | BALANCE RING                             | 1.000 EA |
| 705009002AA | FAN ALUMINUM                             | 1.000 EA |
| 036170006EA | USE 33775-6EA PER DWG                    | 2.000 EA |
| 609844004A  | LEAD SHELF                               | 1.000 EA |
| 609848010A  | INSUL, LEAD SHELF                        | 1.000 EA |
| 046001026A  | THERMOSTAT                               | 1.000 EA |
| 418007020AB | DC FRAME INSULATION C1811/DC1810/GK1104  | 1.000 EA |
| 034180008EA | KEY 5/16X5/16X1 L                        | 1.000 EA |
| 036100012HA | HSHCS M6 12MM UNPLATED                   | 2.000 EA |
| 036610008AB | METRIC LCKW M6 PLTD-G508                 | 2.000 EA |
| 417735001A  | SLEEVE                                   | 1.000 EA |
| 036000050JB | M8-1,25 X 50 MHHCS                       | 2.000 EA |
| 400638001E  | WWSHR                                    | 1.000 EA |
| 801759052A  | BRKT,DE,C180                             | 1.000 EA |
| 036000012JB | M8-1.25 X 12MM HXHDC                     | 1.000 EA |
| 036000012JB | M8-1.25 X 12MM HXHDC                     | 4.000 EA |

| Parts List (continued) |                                   |          |
|------------------------|-----------------------------------|----------|
| Part Number            | Description                       | Quantity |
| 415000003G             | GROUND LUG                        | 1.000 EA |
| 417733001A             | GSK C/ BOX BASE                   | 1.000 EA |
| 418018074A             | GROUND LABEL G100 METRIC 160 D.C. | 1.000 EA |
| 482415000A             | GREASE (MOBIL POLYREX EM)         | 0.680 LB |
| 034693001AB            | PPLG - G508- use 034692001AB      | 1.000 EA |
| 034693001AB            | PPLG - G508- use 034692001AB      | 1.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                | 1.000 EA |
| 035000001A             | ALFTG 1/8" 1610-BL                | 1.000 EA |
| 036000050HB            | MHHCS M6X50MM PLATED              | 2.000 EA |
| 036500009AB            | METRIC NUTM8-1.25PLTD-360         | 4.000 EA |
| 036500009AB            | METRIC NUTM8-1.25PLTD-360         | 4.000 EA |
| 048977006B             | GRFTG - XP                        | 1.000 EA |
| 418150003A             | GREASE FITTING CAP                | 2.000 EA |
| 609830005K             | TBOLT METRIC RP609830-            | 4.000 EA |
| 801758052A             | BRKT,ODE,C180                     | 1.000 EA |
| 036000025HB            | HHCS M6-1.0X25L PLTD.             | 4.000 EA |
| 036601008AB            | M6 FLAT WASHER                    | 4.000 EA |
| 036610008AB            | METRIC LCKW M6 PLTD-G508          | 4.000 EA |
| 419904051E             | BRUSH N                           | 2.000 EA |
| 032018004CK            | HHCS 3/8-16X1/2L PLATED           | 4.000 EA |
| 036000012HB            | HHCS M6X12MM LONG PLATED          | 2.000 EA |
| 036620009AB            | M8 EXTERNAL LK WASHER             | 1.000 EA |
| 065530000B             | GASK                              | 1.000 EA |
| 075451000A             | COVER, CONDUIT BOX                | 1.000 EA |

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|             |                                         |          |
|-------------|-----------------------------------------|----------|
| 422919160   | HHCVR KIT,C180,DE,LOUVERED              | 1.000 EA |
| 422919160   | HHCVR KIT,C180,DE,LOUVERED              | 1.000 EA |
| 422919160   | HHCVR KIT,C180,DE,LOUVERED              | 1.000 EA |
| 422919172   | HHCVR KIT,C180,ODE,SOLID                | 1.000 EA |
| 422919173   | HHCVR KIT,C180,ODE,LOUVERED             | 1.000 EA |
| 422919173   | HHCVR KIT,C180,ODE,LOUVERED             | 1.000 EA |
| 422919173   | HHCVR KIT,C180,ODE,LOUVERED             | 1.000 EA |
| 706305020A  | GUARD, SHAFT                            | 1.000 EA |
| 706320003A  | CONDUIT BOX                             | 1.000 EA |
| MG1025N19   | WILKOFAS T, 778.50, RELIANCE BLUE-GREEN | 0.100 GA |
| 000640000P  | TAG WINDING THERMOST                    | 1.000 EA |
| 000692000NF | NP 2POLE METRIC LABEL                   | 1.000 EA |
| 034180014EA | KEY 5/16X5/16X1-3/4L                    | 1.000 EA |
| 036000012HB | HHCS M6X12MM LONG PLATED                | 2.000 EA |
| 032018010AK | HHCS 1/4-20X1-1/4L PLTD.                | 4.000 EA |
| 036501008AB | KPNUT M6-1.0 ZINCP LTED                 | 4.000 EA |
| 036600008AB | MFWSH M6 PLATED                         | 4.000 EA |
| 706364051AA | BRHLD METRIC SPRING CHG.                | 2.000 EA |
| 706372003B  | ROCKR                                   | 1.000 EA |
| MG5047      | VARNISH 004824-001HM                    | 0.200 GA |
| MG1025N19   | WILKOFAS T, 778.50, RELIANCE BLUE-GREEN | 0.200 GA |
| PA1100      | PACK FOR #1 SKID; CUSTOM                | 1.000 EA |
| LB1171      | LABEL CARTON 6X6 ON LINE BLANK          | 1.000 EA |
| 482413015Y  | #15 SLVG                                | 6.000 FT |
| 482413013Y  | #13 SLEEVING (GREEN)                    | 6.000 FT |
| 041009029B  | CONNECTOR, RTD                          | 4.000 EA |

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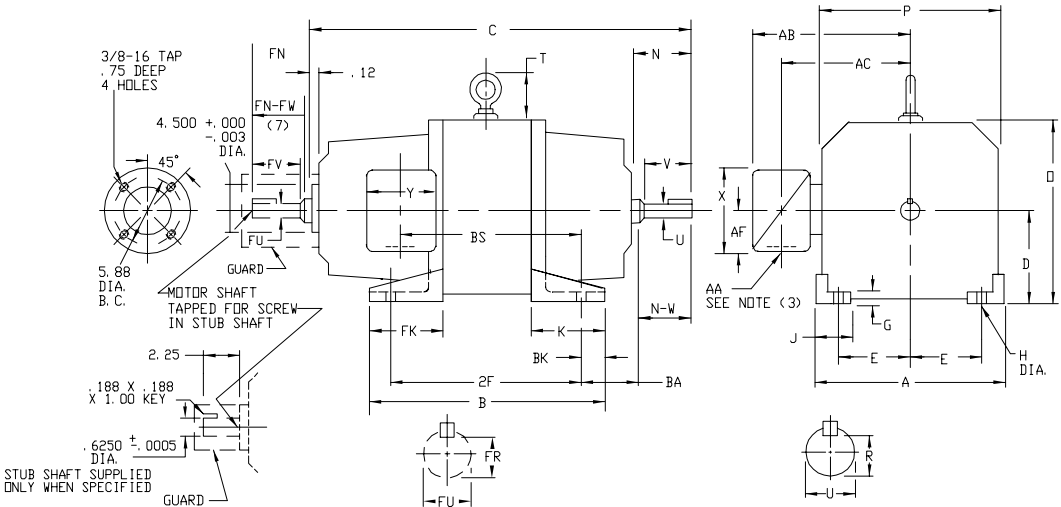
|            |                                          |          |
|------------|------------------------------------------|----------|
| 041009029C | 16-14 BUTT CONNECTOR                     | 3.000 EA |
| MN604      | INSTALLATION MANUAL, RPM III DC DC180-DC | 1.000 EA |
| 415000003G | GROUND LUG                               | 1.000 EA |

609980-001

INDUSTRIAL DIRECT CURRENT MOTORS  
AND GENERATORS - RPM III

MOUNTING: FOOT ENCLOSURE: DRIP-PROOF FULLY-GUARDED COOLING: SELF-VENTILATED ACCESSORIES: PROVISION FOR  
METHOD OF DRIVE: COUPLED OR BELTED SPLASHPROOF, TOTALLY ENCLOSED NON-VENTILATED TACHOMETER MOUNTING  
ONLY WHEN SPECIFIED

FRAMES C180ATZ



- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.  
(2) "U" AND "FU" VARY +.000 - .0005  
(3) TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM.  
FOR "X/P" TERMINAL BOX DIMENSIONS SEE 609989-1.  
FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609989-2.  
(4) "R" AND "FR" VARY +.000 - .015.  
(5) AA CONDUIT, TERMINAL BOX PROVIDED WITH DOUBLE KNOCKOUT.  
(6) AA PIPE TAP  
(7) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.  
(8) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF OPP. DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.  
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-1, W-4, W-5, W-7 OR C-1 MOUNTING IS SPECIFIED.  
BOX LOCATED ON TOP WHEN SPECIFIED.  
MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES.  
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

DIMENSIONS ARE IN INCHES

| FRAME             |  | A    | D(1) | E    | G   | H   | J    | D    | P    | T    | BA   | K    | FK   | BK  |
|-------------------|--|------|------|------|-----|-----|------|------|------|------|------|------|------|-----|
| C1811ATZ-C1812ATZ |  | 9.00 | 4.50 | 3.75 | .31 | .44 | 1.50 | 8.88 | 8.75 | 1.88 | 2.75 | 4.38 | 4.38 | .50 |

| DRIVE END SHAFT AND KEY |       |       |       |       |      |      |        |      |       |      | OPPOSITE DRIVE END SHAFT AND KEY |      |       |        |      |       |     | WT.  |      |
|-------------------------|-------|-------|-------|-------|------|------|--------|------|-------|------|----------------------------------|------|-------|--------|------|-------|-----|------|------|
| FRAME                   | C(8)  | B     | BS    | 2F    | N    | N-W  | UK(2)  | V    | R(4)  | SO.  | LGTH                             | FN   | FN-FW | FUC(2) | FV   | FR(4) | SO. | LGTH | LBS. |
| C1811ATZ                | 23.94 | 14.00 | 11.00 | 12.50 | 3.00 | 2.75 | 1.3750 | 2.50 | 1.201 | .312 | 1.75                             | 2.44 | 2.25  | 1.1250 | 2.00 | .986  | 250 | 1.38 | 175  |
| C1812ATZ                | 25.44 | 15.50 | 12.50 | 14.00 | 3.00 | 2.75 | 1.3750 | 2.50 | 1.201 | .312 | 1.75                             | 2.44 | 2.25  | 1.1250 | 2.00 | .986  | 250 | 1.38 | 210  |

| STEEL TERMINAL BOX DIMENSIONS |           |               |      |      |      |      |      |             |               |                 |      |      |      |      |            |             |  |  |
|-------------------------------|-----------|---------------|------|------|------|------|------|-------------|---------------|-----------------|------|------|------|------|------------|-------------|--|--|
| FRAME                         | MAX. AMPS | STANDARD SIZE |      |      |      |      |      | PART NUMBER |               | DNE SIZE LARGER |      |      |      |      |            | PART NUMBER |  |  |
| C180ATZ                       | 40        | 3/4 & 1"      | 7.31 | 5.75 | 1.94 | 4.38 | 5.00 | 705028-1-R  | 1-1/4 & 1-1/2 | 8.31            | 6.31 | 2.50 | 5.50 | 6.12 | 705029-1-R |             |  |  |
|                               | 96        | 1-1/4 & 1-1/2 | 8.31 | 6.31 | 2.50 | 5.50 | 6.12 | 705029-1-R  | 2" & 2-1/2    | 9.44            | 6.69 | 3.19 | 7.00 | 7.62 | 705030-1-R |             |  |  |

| CAST IRON TERMINAL BOX DIMENSIONS |           |       |       |      |      |      |      |             |       |       |      |      |      |      |             |  |  |
|-----------------------------------|-----------|-------|-------|------|------|------|------|-------------|-------|-------|------|------|------|------|-------------|--|--|
| FRAME                             | MAX. AMPS | AA(6) | AB    | AC   | AF   | X    | Y    | PART NUMBER | AA(6) | AB    | AC   | AF   | X    | Y    | PART NUMBER |  |  |
| C180ATZ                           | 18        | 3/4   | 9.38  | 7.38 | 2.50 | 5.00 | 5.75 | 705028-2-S  | 1     | 9.38  | 7.38 | 2.50 | 5.00 | 5.75 | 705028-2-T  |  |  |
|                                   | 40        | 1     | 9.38  | 7.38 | 2.50 | 5.00 | 5.75 | 705028-2-T  | 1-1/2 | 10.31 | 7.88 | 3.00 | 6.00 | 7.00 | 705029-2-R  |  |  |
|                                   | 96        | 1-1/2 | 10.31 | 7.88 | 3.00 | 6.00 | 7.00 | 705029-2-R  | 2     | 10.31 | 7.88 | 3.00 | 6.00 | 7.00 | 705029-2-S  |  |  |

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                                  |                              |                   |
|----------------------------------|------------------------------|-------------------|
| REV. DESC: REVISED DRAWING VIEWS | VERSION: 01                  | TDR: 000000B70292 |
| REV. LTR: A                      | REVISOR: 08:54:53 09/23/2014 | BY: RSNPSB        |
| FILE: \RSN\00029\768             |                              |                   |
| MTL: -                           |                              |                   |

**BALDOR**

DIMENSION DRAWING, C180ATZ, DPP, TENV, FOOT MTG.

SH 1 of 1

609980-001