BALDOR • RELIANCE

# Product Information Packet

# DMG2307

## 7.5KW/2500RPM/DC/DPFG/NEMA AD219AT

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## Part Detail

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Revision:** | D | **Status:** | PRD/A | **Change #:** | | **Proprietary:** | No |
| **Type:** | DC | **Prod. Type:** | | **Elec. Spec:** | | **CD Diagram:** | |
| **Enclosure:** | | **Mfg Plant:** | | **Mech. Spec:** | | **Layout:** | 1486 |
| **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:** | AD219AT | | |
| **Frame Material:** | Steel | | |
| **Agency Approvals:** | CSA | | |
| **Base Indicator:** | Rigid | | |
| **Bearing Grease Type:** | No Grease | | |
| **Drip Cover:** | No Drip Cover | | |
| **Feedback Device:** | NO FEEDBACK | | |
| **Frame Prefix:** | AD | | |
| **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:** | IEC | | |

## Nameplate 15405

| | | | | | |
|---|---|---|---|---|---|
| **CAT.NO.** | DMG2307 | **MODEL NO.** | T21R8010 | | |
| **KW** | 7.5KW | **RPM** | 2500 | **FRAME** | 0219AT |
| **ARM VOLTS** | 230 | **ARM AMPS** | 32.60 | **WOUND** | COMPOUND |
| **FIELD VOLTS** | 230 | **FIELD AMPS** | 1.15-1.16/1.26-.58 | | |
| **FIELD CONN.** | | **OHMS** | 132.9 | **INSUL. CLASS** | F |
| **ENCL** | DPFG | **DUTY** | CONT | **MAX AMBIENT** | 40 |
| **SERVICE FACTOR** | 1.0 | | | | |
| **S/N** | | **E/S** | K00019A | | |
| | | | | | |
| | | | | | |
| **O.D.E. BRG.** | 6207 | **D.E. BRG.** | 6207 | **BRUSH** | 150986-21-1 |

**QTY** 2

## Parts List

| Part Number | Description | Quantity |
|---|---|---|
| SA281204 | SA T21R8010 | 1.000 EA |
| AA015372 | AA T21R8010 | 1.000 EA |
| 000613006NT | NAME PLATE IEC | 1.000 EA |
| 15405 | ALUM CSA DC GENERATOR | 1.000 EA |
| 151128 | LABEL DC GENERATOR CONN. & TERMINA | 1.000 EA |
| MG1025N19 | WILKOFAST, 778.50, RELIANCE BLUE-GREEN | 0.100 GA |
| 21010-3 | ARM END LAM. | 2.000 EA |
| 032018004BK | HHCS 5/16-18X1/2 PLATED | 2.000 EA |
| 21013 | FAN,INJ MOLDED,210 SERIESBLACK FIBERGLAS | 1.000 EA |
| 21016 | BALANCE RING FR 21 SERIES | 2.000 EA |
| 034180050CA | KEY 3/16 SQ X 6.25 | 1.000 EA |
| 032018014CK | HHCS 3/8-16X1-3/4L | 4.000 EA |
| 032018014CK | HHCS 3/8-16X1-3/4L | 4.000 EA |
| 21038-2 | INTERPOLE STACK, FR 219 | 2.000 EA |
| 424504006DA | SHIM PACKAGE | 1.000 EA |
| 424508100A | BALDOR ROUND DC FRAME INSULATION B/M | 1.000 EA |
| 034141137AA | SNAP RING | 1.000 EA |
| 15094 | DISHED LOCKWASHER .332 ID, .865 OD | 2.000 EA |
| 032018032BK | HHCS 5/16-18X4"PLTD-250 | 4.000 EA |
| 21073-8 | FE BRKT MACH FR210 STANDARD FOR L | 1.000 EA |
| HW5100A07 | W2816-030 WVY WASHER (WB) | 1.000 EA |
| 032018004AK | HHCS 1/4-20X1/2 PLATED | 4.000 EA |
| 21090 | TERM BOX HOLE COVER 1018 STEEL PLATE | 1.000 EA |
| 21091 | GASKET TERM BOX FRAME 210 | 1.000 EA |

## Parts List (continued)

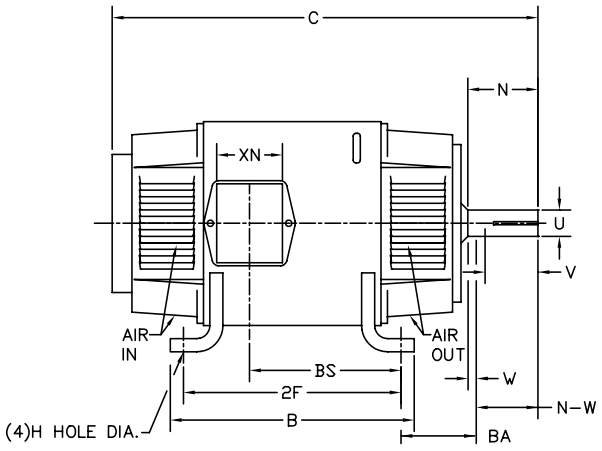
| Part Number | Description | Quantity |
|---|---|---|
| 032018048BK | 5/16-18 X 6.00 HHCS | 4.000 EA |
| 032130016AA | HSHCS | 2.000 EA |
| 034690001AC | P/PLG | 2.000 EA |
| 21075-13 | ODE BRKT MACH,FR 210,LOCKED ODE BRG,FOR | 1.000 EA |
| HA4048A05 | DRIVE-IN PLUG,1.38"EXPAN.PLUG, | 1.000 EA |
| 032018004BK | HHCS 5/16-18X1/2 PLATED | 2.000 EA |
| 15094 | DISHED LOCKWASHER .332 ID, .865 OD | 2.000 EA |
| 150986-21-1SP | BRUSH,210 FR. SERIES T563 NATIONAL | 2.000 EA |
| 21702-1 | ROCKER RING ASSY FR 210 1 BRUSH PER BRU | 1.000 EA |
| 032018004AK | HHCS 1/4-20X1/2 PLATED | 2.000 EA |
| 032018004AK | HHCS 1/4-20X1/2 PLATED | 28.000 EA |
| 15029-1 | TERM.BOX BASE FR-210 DUREX P/N:1DR | 1.000 EA |
| 15029-2 | TERM.BOX COVER FR-210 DUREX P/N:D616 | 1.000 EA |
| 15029-3 | GASKET T BOX CVR,1/8 THK ARMSTRONG DC 20 | 1.000 EA |
| 150449-25 | T BOX GRD STUD ARG 1/4 20 DIA. STUD | 1.000 EA |
| 21079-1 | GASKET,CVR,FAN END,FR.2103/32 THK DC205( | 3.000 EA |
| 21079-2 | GASKET COVER CE FRAME 210 | 3.000 EA |
| 21080-1 | VENT COVER FR 21 SERIES | 3.000 EA |
| 21080-2 | VENT COVER, FR 21 SERIES W-5.00 | 3.000 EA |
| MG1025G05 | WILKOFAST, 789.227, MED. GRAY CHAR. MET. | 1.000 GA |
| 034180014EA | KEY 5/16X5/16X1-3/4L | 1.000 EA |
| PA1100 | PACK FOR #1 SKID; CUSTOM | 1.000 EA |
| MG5047 | VARNISH 004824-001HM | 0.400 GA |
| LB1171 | LABEL CARTON 6X6 ON LINE BLANK | 1.000 EA |

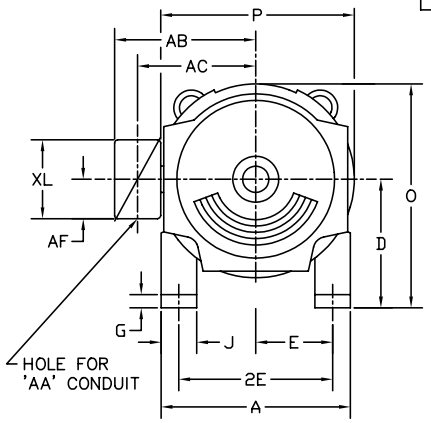
| | | |
|---|---|---|
| 482413008Y | #8 SLEEVING (GREEN) | 6.000 FT |
| 482413015Y | #15 SLVG | 6.000 FT |
| 482413008Y | #8 SLEEVING (GREEN) | 6.000 FT |
| 041009029E | #8 BUTT CONNECTOR | 3.000 EA |
| 041009029B | CONNECTOR, RTD | 4.000 EA |
| 041009029E | #8 BUTT CONNECTOR | 3.000 EA |
| MN605 | INTEGRAL HP DC MOTORS 2/09 | 1.000 EA |

## Accessories

| Part Number | Description | Multiplier |
|---|---|---|
| 91EP5000A01 | C-FACE CONVERSION KIT FOR STOCK MTR,FR 2 | P1 |

1486




| | FOOT MOUNTING | | | | | | D.E. SHAFT EXTENSION | | | | | DRIVE KEY | | FRAME | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRAME | BA | E | 2F | G | H | J | N | N-W | U | V | W | KEY-SQ. | KEY-LONG | A | B | C | D | O | P |
| 1810AT | 2.75 | 3.75 | 11.00 | .38 | .406 | 1.50 | 2.90 | 2.77 | 1.125 [1] | 2.50 [3] | .13 | .250 | 1.38 | 8.75 | 12.25 | 21.46 | 4.50 [2] | 9.00 | 9.00 |
| 219AT | 3.50 | 4.25 | 11.00 | .50 | .406 | 2.00 | 3.00 | 2.75 | 1.375 [1] | 2.50 [3] | .25 | .312 | 1.75 | 10.38 | 12.00 | 24.50 | 5.25 [2] | 10.47 | 10.44 |
| 258AT | 4.25 | 5.00 | 12.50 | .69 | .531 | 2.25 | 3.44 | 3.25 | 1.625 [1] | 3.00 [3] | .19 | .375 | 2.31 | 12.38 | 14.00 | 26.50 | 6.25 [2] | 12.47 | 12.44 |
| 259AT | 4.25 | 5.00 | 14.00 | .69 | .531 | 2.25 | 3.44 | 3.25 | 1.625 [1] | 3.00 [3] | .19 | .375 | 2.31 | 12.38 | 15.50 | 28.00 | 6.25 [2] | 12.47 | 12.44 |
| 288AT | 4.75 | 5.50 | 14.00 | .69 | .531 | 2.50 | 3.91 | 3.75 | 1.875 [1] | 3.50 [3] | .16 | .500 | 2.50 | 13.81 | 15.62 | 32.00 | 7.00 [2] | 13.88 | 13.75 |
| 328AT | 5.25 | 6.25 | 16.00 | .81 | .656 | 3.00 | 4.40 | 4.25 | 2.125 [1] | 4.00 [3] | .15 | .500 | 3.12 | 15.88 | 17.75 | 34.63 | 8.00 [2] | 15.94 | 15.88 |
| 329AT | 5.25 | 6.25 | 18.00 | .81 | .656 | 3.00 | 4.40 | 4.25 | 2.125 [1] | 4.00 [3] | .15 | .500 | 3.12 | 15.88 | 19.75 | 36.63 | 8.00 [2] | 15.94 | 15.88 |

| | CONDUIT BOX | | | | | | | APPROXIMATE WEIGHT |
|---|---|---|---|---|---|---|---|---|
| FRAME | AA | AB | AC | AF | BS | XL | XN | |
| 1810AT | 3/4NPT | INTEGRAL WITH ENDPLATE | | | | | | 195 |
| 219AT | 3/4-1 | 7.91 | 6.44 | 2.44 | 9.38 | 3.81 | 3.12 | 260 |
| 258AT | 1-1/4 | 9.35 | 7.72 | 2.94 | 9.75 | 4.94 | 4.00 | 366 |
| 259AT | 1-1/4 | 9.35 | 7.72 | 2.94 | 11.25 | 4.94 | 4.00 | 411 |
| 288AT | 1-1/4 | 11.88 | 9.25 | 5.00 | 12.64 | 7.88 | 5.25 | 566 |
| 328AT | 2 | 12.94 | 10.32 | 5.00 | 13.68 | 7.88 | 5.25 | 775 |
| 329AT | 2 | 12.94 | 10.32 | 5.00 | 15.68 | 7.88 | 5.25 | 884 |

1) SHAFT DIAMETERS TO 1.500 TOLERANCE +.0000 -.0005
SHAFT DIAMETERS ABOVE 1.500 TOLERANCE +.0000 -.0010
SHAFT DIAMETERS TO 1.625 RUNOUT .002 T.I.R. MAX.
SHAFT DIAMETERS ABOVE 1.625 RUNOUT .003 T.I.R. MAX.
2) 'D' DIMENSION TOLERANCE +.000 - .030
3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
4) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
5) ALL DIMENSIONS NOT NOTED ARE NOMINAL DIMENSIONS CONSULT FACTORY FOR TOLERANCES.

FOR F1 OR F2 CONDUIT BOX LOCATION SEE SALES ORDER

1486

MATL: -

REV: C CORRECTED "A" DIMENSIONS

9841

SCALE: 0.08 BY: TBM REVISED: 09/10/96

FILE: CHB00003091 TDR: 0104915

BALDOR ELECTRIC Co.

DIM SHEET, 1810AT THRU 329AT GENERATORS