

# **BALDOR® • RELIANCE**

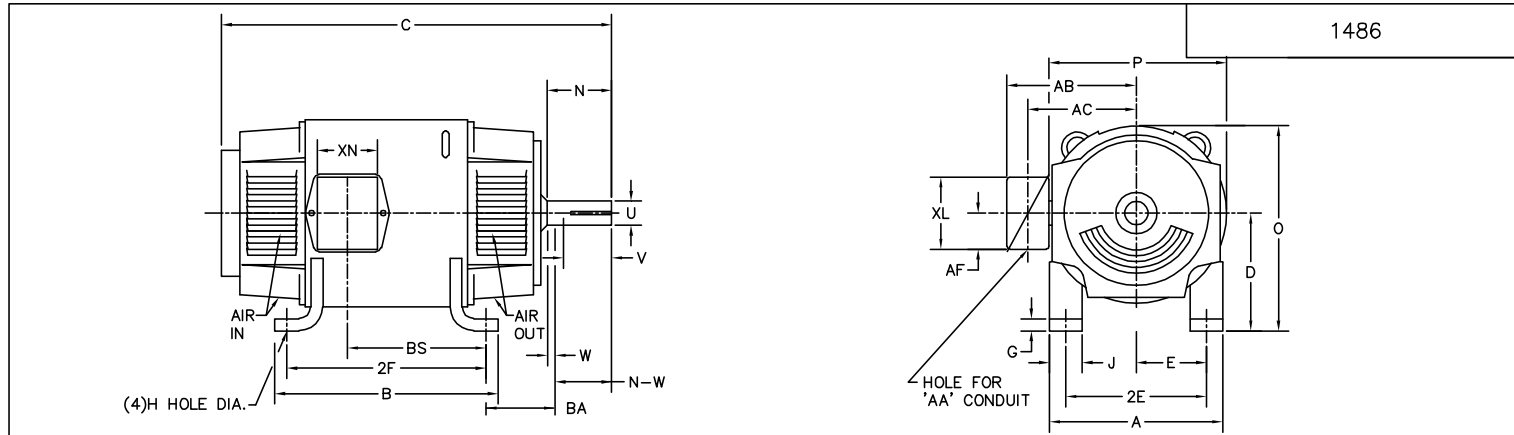
## **Product Information Packet**

# **DMG2307**

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

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| Part Detail       |        |                |                 |
|-------------------|--------|----------------|-----------------|
| Type:             | DC     | Prod. Type:    | T               |
| Power Code:       | A      | Weight:        | 245             |
| Frame Group:      | 0219AT | Mounting Pos.: | F2              |
| HP:               | 7.5    | Enclosure:     | DPFG            |
| RPM:              | 2500   | Wound:         | COMPOUND        |
| Service Factor:   | 1.0    | Arm V:         | 230             |
| Arm A:            | 32.60  | Field V:       | 230             |
| Field A:          | 1.73   | Field A Hot:   | 1.15-1.16/1.26- |
| Insulation Class: | F      | Ambient:       | 40              |
| Duty:             | CONT   | DE Bearing:    | 6207            |
| ODE Bearing:      | 6207   | Brushes:       | 150986-21-1     |
| Brush Qty.:       |        |                |                 |



| FRAME  | FOOT MOUNTING |      |       |     |      |      | D.E. SHAFT EXTENSION |      |                    |                   |     | DRIVE KEY |          | 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 <sup>1</sup> | 2.50 <sup>3</sup> | .13 | .250      | 1.38     | 8.81  | 12.25 | 21.46 | 4.50 <sup>2</sup> | 9.00  | 9.00  |
| 219AT  | 3.50          | 4.25 | 11.00 | .50 | .406 | 2.00 | 3.00                 | 2.75 | 1.375 <sup>1</sup> | 2.50 <sup>3</sup> | .25 | .312      | 1.75     | 10.38 | 12.00 | 24.50 | 5.25 <sup>2</sup> | 10.47 | 10.44 |
| 258AT  | 4.25          | 5.00 | 12.50 | .69 | .531 | 2.25 | 3.44                 | 3.25 | 1.625 <sup>1</sup> | 3.00 <sup>3</sup> | .19 | .375      | 2.31     | 12.38 | 14.00 | 26.50 | 6.25 <sup>2</sup> | 12.47 | 12.44 |
| 259AT  | 4.25          | 5.00 | 14.00 | .69 | .531 | 2.25 | 3.44                 | 3.25 | 1.625 <sup>1</sup> | 3.00 <sup>3</sup> | .19 | .375      | 2.31     | 12.38 | 15.50 | 28.00 | 6.25 <sup>2</sup> | 12.47 | 12.44 |
| 288AT  | 4.75          | 5.50 | 14.00 | .69 | .531 | 2.50 | 3.91                 | 3.75 | 1.875 <sup>1</sup> | 3.50 <sup>3</sup> | .16 | .500      | 2.50     | 13.81 | 15.62 | 32.00 | 7.00 <sup>2</sup> | 13.88 | 13.75 |
| 328AT  | 5.25          | 6.25 | 16.00 | .81 | .656 | 3.00 | 4.40                 | 4.25 | 2.125 <sup>1</sup> | 4.00 <sup>3</sup> | .15 | .500      | 3.12     | 15.88 | 17.75 | 34.63 | 8.00 <sup>2</sup> | 15.94 | 15.88 |
| 329AT  | 5.25          | 6.25 | 18.00 | .81 | .656 | 3.00 | 4.40                 | 4.25 | 2.125 <sup>1</sup> | 4.00 <sup>3</sup> | .15 | .500      | 3.12     | 15.88 | 19.75 | 36.63 | 8.00 <sup>2</sup> | 15.94 | 15.88 |

| FRAME  | CONDUIT BOX |                        |       |      |       |      |      | APPROXIMATE WEIGHT |
|--------|-------------|------------------------|-------|------|-------|------|------|--------------------|
|        | 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 - .060
- 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

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

|  |                              |                   |
|--|------------------------------|-------------------|
| REV. DESC: REV. "D" DIM TO +.000 -.060 |                              |                   |
| REV. LTR: E                            | VERSION: 02                  | TDR: 000000752566 |
| FILE: \RGG\00019\528                   | REVISED: 03:26:56 06/20/2012 |                   |
| MTL: -                                 | BY: RGGNAS                   |                   |

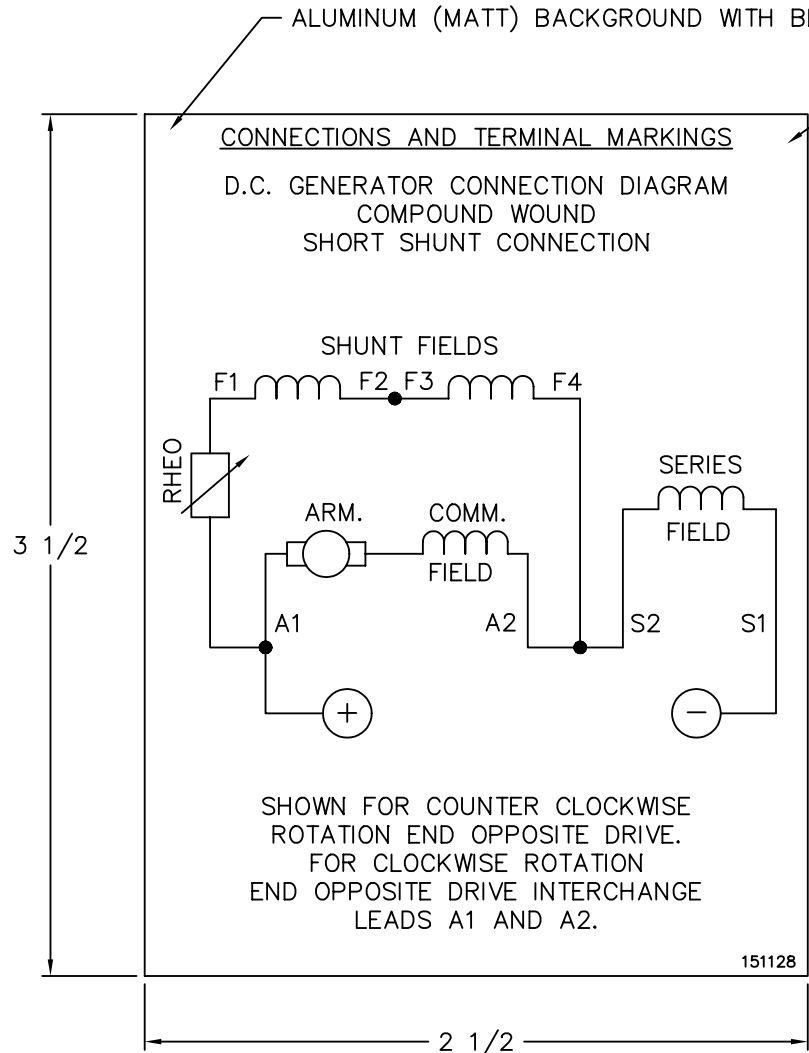
**BALDOR**

DIM SHEET, 1810AT THRU 329AT GENERATORS

SH 1 of 1

1-486

151128



LABEL MANUFACTURER IDENTIFYING MARK TO APPEAR HERE

**NOTE:**  
MATERIAL .005 MINIMUM FULL HARD ALUMINUM DULL FINISH.  
TEMP. RANGE -20°C TO +125°C MAXIMUM.  
FOR INDOOR AND OUTDOOR MOUNTING BACK.  
METAL, PRESSURE SENSITIVE BACK. MUST MEET CSA STANDARD.  
THE CSA IDENTIFYING MARK OF THE LABEL MANUFACTURER MUST APPEAR IN THE UPPER RIGHT HAND CORNER AS INDICATED.

UNLESS OTHERWISE SPECIFIED, BREAK ALL SHARP EDGES .010/.020. REMOVE ALL BURRS.

TOLERANCES

|            |                 |
|------------|-----------------|
| .X ±.015   | FRACTIONS ±1/32 |
| .XX ±.010  | RADII ±1/16     |
| .XXX ±.005 | ANGLES ±1°      |

151128

|             |  |              |                   |
|-------------|--|--------------|-------------------|
| MATL: NOTED |  |              |                   |
| REV: A      | CHANGE ALL "NAMEPLATE" TEXT TO "LABEL" |              |                   |
| 8Z1191      | SCALE: -                               | BY: BKW      | REVISED: 02/19/97 |
|             | FILE: CHB00003088                      | TDR: 0115147 |                   |

**BALDOR ELECTRIC Co.**

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC GENERATORS


|              |       |                |                    |                 |               |
|--------------|-------|----------------|--------------------|-----------------|---------------|
| REL. S.O.    | FRAME | RATING         | RPM                | ARM. VOLTS      | ARM. AMPS     |
|              | 219AT | 7.50HP         | 2500               | 230             | 32.6          |
| WINDING TYPE |       | S.F.           | ENCL.              | AMB °C/INSUL    | DUTY          |
| STAB. SHUNT  |       | 1.0            | DPG                | 40/F            | CONT          |
|              |       |                |                    |                 | 230           |
| POWER CODE   | TYPE  | WK 2 (LB-FT 2) | HOT ARM. CIR. RES. | FLD. AMPS@25 °C | HOT FIELD RES |
| A            | T     | 1.201          | .723               | 1.72            | 199           |

|                     |                |                           |                             |           |
|---------------------|----------------|---------------------------|-----------------------------|-----------|
| ARM. CIR. IND. (mh) | FIELD IND. (H) | COOLING AIR (CFM/IN H 20) | TURNS PER COIL SHUNT/SERIES | TEST DATE |
| 6.73                | 63.0           | -/-                       | 2200/5                      | -         |

| LOAD PERFORMANCE |         |                   |              |      |              |
|------------------|---------|-------------------|--------------|------|--------------|
| LOAD             | AMPERES | TORQUE IN OZ.-FT. | OUTPUT IN HP | RPM  | % EFFICIENCY |
| NO LOAD          | -91     | 0                 | 0            | 2089 | 0            |
| 1/4              | 8.2     | 0                 | 0            | 2029 | 0            |
| 2/4              | 16      | 0                 | 0            | 1961 | 0            |
| 3/4              | 24      | 0                 | 0            | 1894 | 0            |
| 4/4              | 33      | 0                 | 0            | 1830 | 0            |
| O.L.             | 49      | 0                 | 0            | 1706 | 0            |

| RPM VS. FIELD AMPS |          |          | Eg VS. FIELD AMPS    |                      |  |
|--------------------|----------|----------|----------------------|----------------------|--|
| FIELD AMPS         | RPM N.L. | RPM F.L. | Eg N.L. @ BASE SPEED | Eg F.L. @ BASE SPEED |  |
| 1.15               | 2089     | 1829     | 272                  | 274                  |  |
| 1.04               | 2183     | 2354     | 264                  | 264                  |  |
| .932               | 2305     | 2448     | 250                  | 251                  |  |
| .823               | 2489     | 2589     | 231                  | 234                  |  |
| .714               | 2761     | 2800     | 207                  | 212                  |  |

REMARKS: TYPICAL DATA

|   |  |   |
|---|--|---|
|  | DR. BY E. H. GILLOT                                      | <b>D-C MOTOR PERFORMANCE DATA</b><br>DK0019A<br>ISSUE DATE 04-04-08 |
|   | CK. BY B. GRANT<br>APP. BY R. RELANCHER<br>DATE 04-04-08 |   |