

# ABB BALDOR RELIANCE III

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## Customer information packet DMG2325

0328AT, 25KW, 1750RPM, 230, 230, DPFG, F2

**Specifications**

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Armature Voltage</b>         | 230 V                 |
| <b>Base Speed</b>               | 1750 rpm              |
| <b>Enclosure</b>                | DPFG                  |
| <b>Field Voltage</b>            | 230 V                 |
| <b>Frame</b>                    | 328AT                 |
| <b>Output Power</b>             | 25.000 KW             |
| <b>Agency Approvals</b>         | CSA                   |
| <b>Ambient Temperature</b>      | 40 °C                 |
| <b>Armature Current</b>         | 109.0 a               |
| <b>Drip Cover</b>               | No Drip Cover         |
| <b>Duty Rating</b>              | CONT                  |
| <b>Feedback Device</b>          | NO FEEDBACK           |
| <b>Field Winding Type</b>       | COMPOUND              |
| <b>Heater Indicator</b>         | No Heater             |
| <b>Insulation Class</b>         | F                     |
| <b>Lifting Lugs</b>             | Standard Lifting Lugs |
| <b>Motor Standards</b>          | NEMA                  |
| <b>Mounting Arrangement</b>     | F2                    |
| <b>Overall Length</b>           | 34.63 IN              |
| <b>Shaft Diameter</b>           | 2.125 IN              |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding    |
| <b>Shaft Slinger Indicator</b>  | No Slinger            |
| <b>Thermal Device - Bearing</b> | None                  |

**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | F          |
| <b>Type</b>         | DC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | K0086A     |
| <b>Layout</b>       | 1486       |
| <b>Eff. date</b>    | 12-04-2025 |
| <b>CD Diagram</b>   |            |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 11-08-2019 |

**Nameplate**

| 15405          |         |           |            |           |          |              |        |              |    |
|----------------|---------|-----------|------------|-----------|----------|--------------|--------|--------------|----|
| CAT.NO.        | DMG2325 |           | MODEL NO.  |           | T32S8011 |              |        |              |    |
| KW             | 25KW    | RPM       | 1750       |           | FRAME    |              | 0328AT |              |    |
| ARM VOLTS      | 230     |           | ARM AMPS   | 109.00    |          | WOUND        |        | STD COMPOUND |    |
| FIELD VOLTS    | 230     |           | FIELD AMPS | 3.16-2.13 |          |              |        |              |    |
| FIELD CONN.    |         | OHMS      |            |           |          | INSUL. CLASS |        |              | F  |
| ENCL           | DPFG    | DUTY      | CONT       |           |          | MAX AMBIENT  |        |              | 40 |
| SERVICE FACTOR |         |           |            |           |          |              |        |              |    |
| S/N            |         |           |            | E/S       | K0086A   |              |        |              |    |
|                | -       |           |            |           |          |              |        |              |    |
|                | IP23    |           |            |           |          |              |        |              |    |
| O.D.E. BRG.    | 6210    | D.E. BRG. | 6211       | BRUSH     |          | 28610-1      |        |              |    |
|                | QTY 4   |           |            |           |          |              |        |              |    |

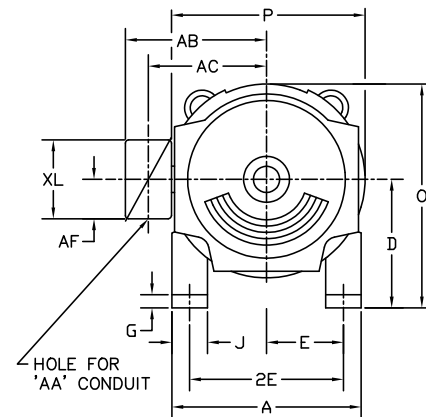
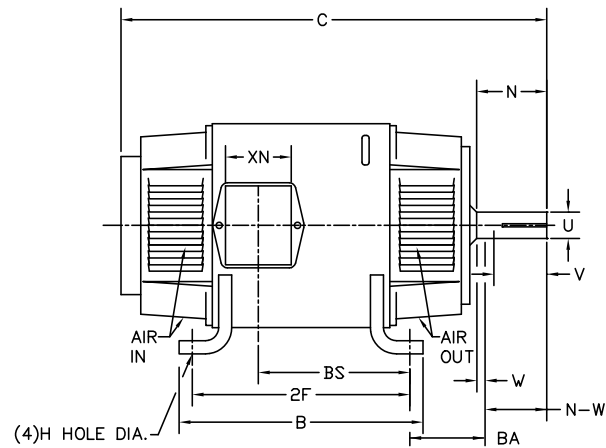
**000613006SC**

**KG**

**Accessories**

| Part number | Description                              | Multiplier |
|-------------|------------------------------------------|------------|
| 94EP5000A02 | C-FACE CONVERSION KIT FOR STOCK MTR,FR 3 |            |

|                                                                                     |                |                                                                                                           |                         |                                                                             |                 |
|-------------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------------|-----------------|
| REL S.O.                                                                            | FRAME          | RATING                                                                                                    | RPM                     | ARM. VOLTS                                                                  | ARM. AMPS       |
|                                                                                     | 328            | 25.0HP                                                                                                    | 1750                    | 230                                                                         | 109             |
| WINDING TYPE                                                                        |                | S.F.                                                                                                      | ENCL.                   | AMB °C/INSUL                                                                | DUTY            |
| STAB. SHUNT                                                                         |                | 1.0                                                                                                       | DPG                     | 40/F                                                                        | CONT            |
| POWER CODE                                                                          | TYPE           | WK <sup>2</sup> (LB-FT <sup>2</sup> )                                                                     | HOT ARM.CIR.RES.        | FLD. AMPS@25 °C                                                             | HOT FIELD RES   |
| A                                                                                   | T              | 7.377                                                                                                     | .122                    | 3.16                                                                        | 107             |
| ARM. CIR. IND. (mh)                                                                 | FIELD IND. (H) | COOLING AIR (CFM/IN H <sub>2</sub> O)                                                                     |                         | TURNS PER COIL<br>SHUNT/SERIES                                              | TEST DATE       |
| 2.27                                                                                | 102            | -/-                                                                                                       |                         | 2000/3                                                                      | -               |
| LOAD PERFORMANCE                                                                    |                |                                                                                                           |                         |                                                                             |                 |
| LOAD                                                                                | AMPERES        | TORQUE<br>IN OZ.-FT.                                                                                      | OUTPUT<br>IN HP         | RPM                                                                         | %<br>EFFICIENCY |
| NO LOAD                                                                             | 472            | 0                                                                                                         | 0                       | 1531                                                                        | 0               |
| 1/4                                                                                 | 27             | 0                                                                                                         | 0                       | 1502                                                                        | 0               |
| 2/4                                                                                 | 55             | 0                                                                                                         | 0                       | 1472                                                                        | 0               |
| 3/4                                                                                 | 82             | 0                                                                                                         | 0                       | 1443                                                                        | 0               |
| 4/4                                                                                 | 109            | 0                                                                                                         | 0                       | 1418                                                                        | 0               |
| O.L.                                                                                | 164            | 0                                                                                                         | 0                       | 1374                                                                        | 0               |
| RPM VS. FIELD AMPS                                                                  |                |                                                                                                           |                         |                                                                             |                 |
| FIELD AMPS                                                                          | RPM N.L.       | RPM F.L.                                                                                                  | Eg N.L.<br>@ BASE SPEED | Eg F.L.<br>@ BASE SPEED                                                     |                 |
| 2.13                                                                                | 1530           | 1417                                                                                                      | 261                     | 259                                                                         |                 |
| 1.91                                                                                | 1573           | 1668                                                                                                      | 256                     | 251                                                                         |                 |
| 1.68                                                                                | 1647           | 1726                                                                                                      | 244                     | 240                                                                         |                 |
| 1.46                                                                                | 1775           | 1815                                                                                                      | 227                     | 224                                                                         |                 |
| 1.24                                                                                | 1981           | 1950                                                                                                      | 202                     | 203                                                                         |                 |
| REMARKS: TYPICAL DATA                                                               |                |                                                                                                           |                         |                                                                             |                 |
|  |                | DR. BY <u>E.H. GILLOT</u><br>CK. BY <u>B. GRANT</u><br>APP. BY <u>R. ERLACHER</u><br>DATE <u>05-14-09</u> |                         | <b>D-C MOTOR<br/>PERFORMANCE<br/>DATA</b><br>DK0086A<br>ISSUE DATE 05-14-09 |                 |



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 <sup>1</sup> | 2.50 <sup>3</sup> | .13 | .250      | 1.38     | 8.75  | 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 |

| CONDUIT BOX |        |                        |       |      |       |      |      | APPROXIMATE<br>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 |                   |
| 9871    |   | SCALE: 0.08              | BY: TBM           |
|         |   | FILE: CHB00003091        | REVISED: 09/10/96 |
|         |   | TDR: 0104915             |                   |

**BALDOR ELECTRIC Co.**

DIM SHEET, 1810AT THRU 329AT GENERATORS