

# ABB BALDOR RELIANCE III

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## Customer information packet

### D50250P

250HP, 1750/1900RPM, DC, 506AT, DPFG, F1, N

**Specifications**

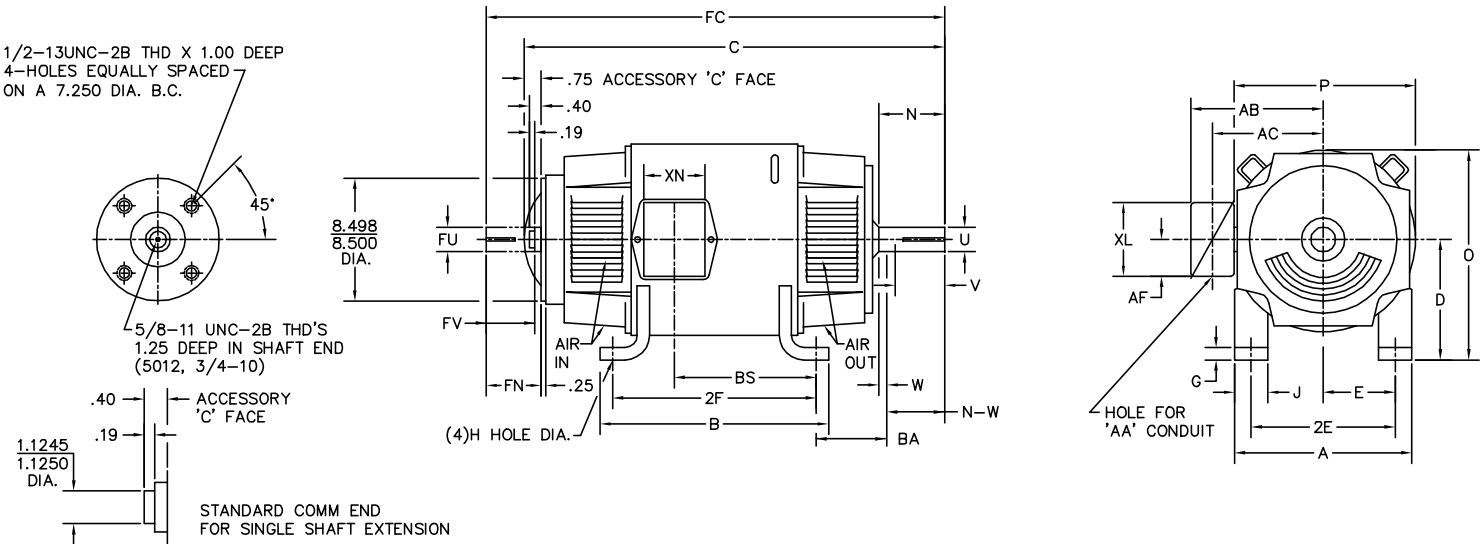
|                                 |                         |
|---------------------------------|-------------------------|
| <b>Armature Voltage</b>         | 500 V                   |
| <b>Base Speed</b>               | 1750 rpm                |
| <b>Enclosure</b>                | DPFG                    |
| <b>Field Voltage</b>            | 150 V                   |
|                                 | 300 V                   |
| <b>Frame</b>                    | 506AT                   |
| <b>Frame Material</b>           | Steel                   |
| <b>Output Power</b>             | 250.000 HP              |
| <b>Agency Approvals</b>         | CSA                     |
| <b>Ambient Temperature</b>      | 40 °C                   |
| <b>Armature Current</b>         | 392.0 a                 |
| <b>Base Indicator</b>           | Rigid                   |
| <b>Bearing Grease Type</b>      | Polyrex EM (-20F +300F) |
| <b>Drip Cover</b>               | No Drip Cover           |
| <b>Duty Rating</b>              | CONT                    |
| <b>Feedback Device</b>          | NO FEEDBACK             |
| <b>Field Winding Type</b>       | STR. SHUNT              |
| <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>     | F1                      |
| <b>Overall Length</b>           | 55.00 IN                |
| <b>Service Factor</b>           | 1.00                    |
| <b>Shaft Diameter</b>           | 3.249 IN                |
| <b>Shaft Extension Location</b> | Pulley End              |
| <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>     | B          |
| <b>Type</b>         | DC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | K0113A A   |
| <b>Layout</b>       | 877-3      |
| <b>Eff. date</b>    | 03-22-2022 |
| <b>CD Diagram</b>   | 15209      |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-09-2015 |

**Nameplate**

| NP1734      |               |           |           |                       |          |            |     |     |  |
|-------------|---------------|-----------|-----------|-----------------------|----------|------------|-----|-----|--|
| CAT.NO.     |               |           |           | MODEL                 | T50R8002 |            |     |     |  |
| HP          | 250           | RPM       | 1750/1900 |                       | FRAME    | 0506AT     |     |     |  |
| ARM V       | 500           |           | ARM A     | 392.00                | WOUND    | STR. SHUNT |     |     |  |
| FLD V       | 150/300       |           | FLD A     | 14.10-10.04/7.05-5.02 |          |            |     |     |  |
| CONN        |               |           | OHMS      |                       |          | CL         | F   |     |  |
| ENCL        | DPFG          |           | DUTY      | CONT                  |          | MX AMB     | 40  |     |  |
| P CODE      | D             |           | CTSR      |                       |          | SER.F.     | 1.0 |     |  |
| S/N         |               |           |           | E/S                   | K0113A A |            |     |     |  |
|             | BRUSH:50034-2 |           |           |                       |          |            |     |     |  |
|             |               |           |           |                       |          |            |     |     |  |
| O.D.E. BRG. | 6216          | D.E. BRG. | 6218      | BRUSH                 |          |            |     | QTY |  |



| FOOT MOUNTING |      |       |       |      |       |      |      |      |       | D.E. SHAFT EXTENSION |     | DRIVE KEY |          | ACC SHAFT EXTENSION |       | ACC KEY |         | FRAME    |       |       |       |       |                    |       |       |
|---------------|------|-------|-------|------|-------|------|------|------|-------|----------------------|-----|-----------|----------|---------------------|-------|---------|---------|----------|-------|-------|-------|-------|--------------------|-------|-------|
| FRAME         | BA   | E     | 2F    | G    | H     | J    | N    | N-W  | U     | V                    | W   | KEY-SQ.   | KEY-LONG | FN                  | FU    | FV      | KEY-SQ. | KEY-LONG | A     | B     | C     | FC    | D                  | O     | P     |
| 504AT         | 8.50 | 10.00 | 16.00 | 1.18 | 1.188 | 4.50 | 6.76 | 6.57 | 3.250 | 6.32 <sup>3</sup>    | .19 | .750      | 5.25     | 5.95                | 2.875 | 5.70    | .750    | 5.00     | 24.88 | 18.88 | 45.75 | 51.00 | 12.50 <sup>2</sup> | 24.91 | 24.81 |
| 506AT         | 8.50 | 10.00 | 20.00 | 1.18 | 1.188 | 4.50 | 6.76 | 6.57 | 3.250 | 6.32 <sup>3</sup>    | .19 | .750      | 5.25     | 5.95                | 2.875 | 5.70    | .750    | 5.00     | 24.88 | 22.88 | 49.75 | 55.00 | 12.50 <sup>2</sup> | 24.91 | 24.81 |
| 508AT         | 8.50 | 10.00 | 25.00 | 1.18 | 1.188 | 4.50 | 6.76 | 6.57 | 3.250 | 6.32 <sup>3</sup>    | .19 | .750      | 5.25     | 5.95                | 2.875 | 5.70    | .750    | 5.00     | 24.88 | 27.88 | 54.75 | 60.00 | 12.50 <sup>2</sup> | 24.91 | 24.81 |
| 5010AT        | 8.50 | 10.00 | 32.00 | 1.18 | 1.188 | 4.50 | 6.76 | 6.57 | 3.250 | 6.32 <sup>3</sup>    | .19 | .750      | 5.25     | 5.95                | 2.875 | 5.70    | .750    | 5.00     | 24.88 | 34.88 | 61.75 | 67.00 | 12.50 <sup>2</sup> | 24.91 | 24.81 |
| 5011AT        | 8.50 | 10.00 | 36.00 | 1.18 | 1.188 | 4.50 | 6.76 | 6.57 | 3.375 | 6.32 <sup>3</sup>    | .19 | .875      | 5.25     | 5.95                | 2.875 | 5.70    | .750    | 5.00     | 24.88 | 38.88 | 65.75 | 71.00 | 12.50 <sup>2</sup> | 24.91 | 24.81 |
| 5012AT        | 8.50 | 10.00 | 43.00 | 1.18 | 1.188 | 4.50 | 7.06 | 6.87 | 4.250 | 6.62 <sup>3</sup>    | .19 | 1.000     | 5.25     | 5.95                | 2.875 | 5.70    | 1.000   | 5.00     | 24.88 | 45.88 | 73.75 | 79.75 | 12.50 <sup>2</sup> | 24.91 | 24.91 |

| CONDUIT BOX |                |       |       |      |       |       |       | ARM<br>APPROX.<br>LBS.FT. <sup>2</sup> | APPROXIMATE<br>WEIGHT |
|-------------|----------------|-------|-------|------|-------|-------|-------|----------------------------------------|-----------------------|
| FRAME       | AA             | AB    | AC    | AF   | BS    | XL    | XN    |                                        |                       |
| 504AT       | 3              | 20.65 | 16.81 | 2.62 | 13.25 | 11.63 | 7.76  | 79.10                                  | 1910 <sup>5</sup>     |
| 506AT       | 3              | 20.65 | 16.81 | 2.62 | 17.25 | 11.63 | 7.76  | 98.76                                  | 2290 <sup>5</sup>     |
| 508AT       | 3              | 20.65 | 16.81 | 2.62 | 22.25 | 11.63 | 7.76  | 121.87                                 | 2820 <sup>5</sup>     |
| 5010AT      | 4 <sup>4</sup> | 21.20 | 16.81 | 2.84 | 30.12 | 13.40 | 13.50 | 156                                    | 3450 <sup>5</sup>     |
| 5011AT      | 4 <sup>4</sup> | 21.20 | 16.81 | 2.84 | 34.12 | 13.40 | 13.50 | 161                                    | 3810 <sup>5</sup>     |
| 5012AT      | 4 <sup>4</sup> | 21.20 | 17.19 | 2.84 | 41.12 | 13.40 | 13.50 | 170                                    | 4887 <sup>5</sup>     |

- 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) THERE ARE TWO HOLES FOR 4" CONDUIT, SECOND HOLE IS 6" TOWARD DRIVE END.
- 5) TOTAL WEIGHT OF MOTOR.
- 6) 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 MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: CHG (5011)U DIM TO 3.375, KEY-SQ TO .875

REV. LTR: D BY: MBT REVISED: 07:59:01 04/22/2003 TDR: 299170

Σ-LL8

FILE: CHB00001040

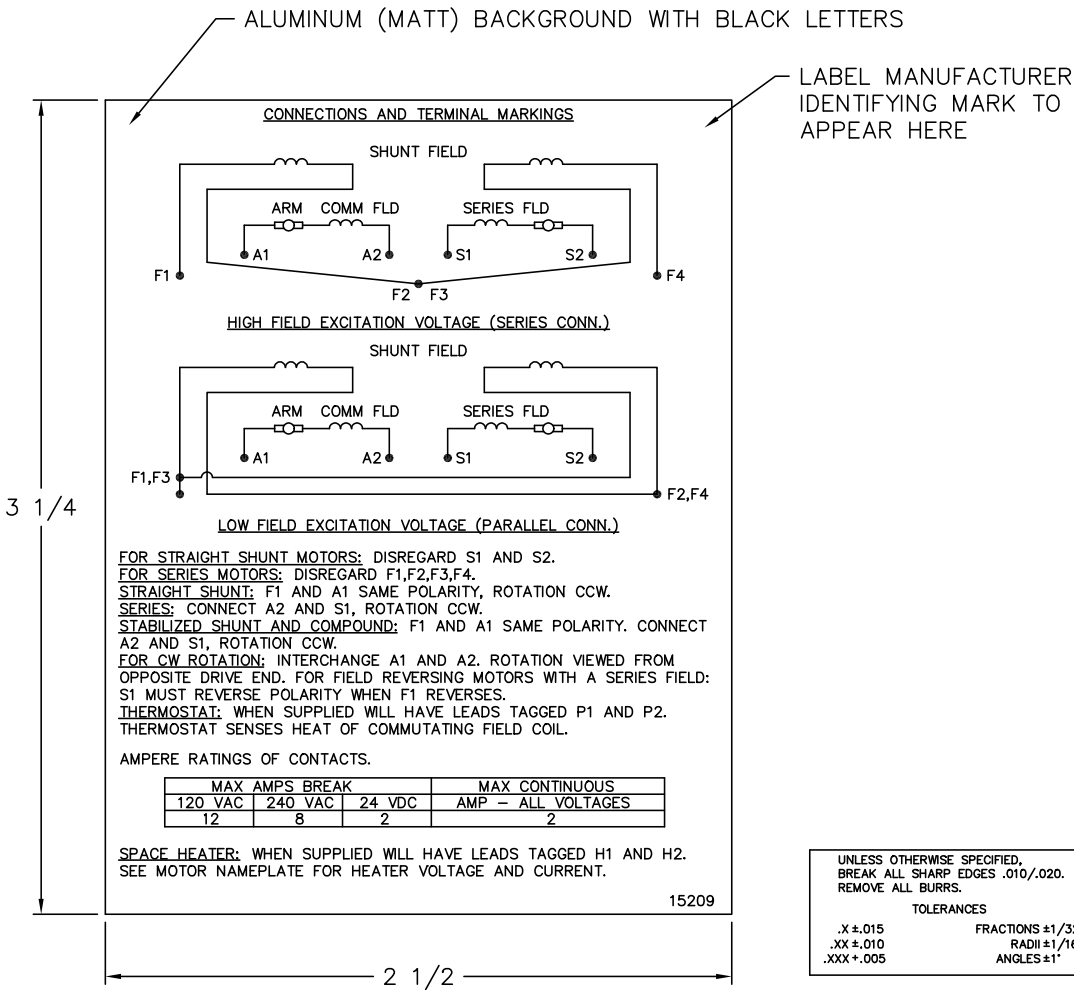
MTL: -

REF: 877-3

BALDOR ELECTRIC Co.

DIM SHEET: 504-5012AT,DPFG

15209



**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.

|             |   |                                        |                   |
|-------------|---|----------------------------------------|-------------------|
| MATL: NOTED |   |                                        |                   |
| REV:        | G | CHANGE ALL "NAMEPLATE" TEXT TO "LABEL" |                   |
| 60Z91       |   | SCALE: —                               | BY: BKW           |
|             |   | FILE: CHB00002485                      | REVISED: 02/19/97 |
|             |   | TDR: 0115147                           |                   |

**BALDOR ELECTRIC Co.**

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC

15209