

# ABB BALDOR RELIANCE III

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## Customer information packet D5005P

5HP/1750RPM/D PHASE/DPFG/NEMA186AT

**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>Output Power</b>             | 5.000 HP              |
| <b>Agency Approvals</b>         | CSA                   |
| <b>Ambient Temperature</b>      | 40 °C                 |
| <b>Armature Current</b>         | 8.5 a                 |
| <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>     | F3                    |
| <b>Overall Length</b>           | 20.87 IN              |
| <b>Service Factor</b>           | 1.00                  |
| <b>Shaft Diameter</b>           | 1.125 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>     | -          |
| <b>Type</b>         | DC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | K0008A A   |
| <b>Layout</b>       | 875        |
| <b>Eff. date</b>    | 01-02-2020 |
| <b>CD Diagram</b>   | 15209      |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 12-26-2019 |

**Nameplate**

| NP1734      |         |           |                  |          |          |            |  |  |     |   |
|-------------|---------|-----------|------------------|----------|----------|------------|--|--|-----|---|
| CAT.NO.     |         |           |                  | MODEL    | T18S8006 |            |  |  |     |   |
| HP          | 5       | RPM       | 1750/2300        |          | FRAME    | L 0186AT   |  |  |     |   |
| ARM V       | 500     | ARM A     | 8.50             |          | WOUND    | STR. SHUNT |  |  |     |   |
| FLD V       | 150/300 | FLD A     | 1.34-.62/.67-.31 |          |          |            |  |  |     |   |
| CONN        |         | OHMS      | 312.             |          | CL       | F          |  |  |     |   |
| ENCL        | DPFG    | DUTY      | CONT             |          | MX AMB   | 40         |  |  |     |   |
| P CODE      | D       | CTSR      |                  |          | SER.F.   | 1.0        |  |  |     |   |
| S/N         |         |           | E/S              | K0008A A |          |            |  |  |     |   |
|             | -       |           |                  |          |          |            |  |  |     |   |
|             |         |           |                  |          |          |            |  |  |     |   |
| O.D.E. BRG. | 6205    | D.E. BRG. | 6206             | BRUSH    | 18044-1  |            |  |  | QTY | 2 |

**Parts List**

| Part number | Description                              | Quantity |
|-------------|------------------------------------------|----------|
| SA377443    | SA T18S8006                              | 1.000 ea |
| AA018258    | AA T18S8006                              | 1.000 ea |
| 036170004DA | DRSCW METRIC NAMEPLATE                   | 4.000 ea |
| NP1734      | NPL,BALDOR DC MTR ALUMINUM               | 1.000 ea |
| ME3002A06   | COMMUTATOR ISOLATOR FOR 18043 COMM       | 1.000 ea |
| 032018004AK | HHCS 1/4-20X1/2 PLATED                   | 2.000 ea |
| 034017012AB | LCKW 1/4 STD. PLATED 034017012AF         | 2.000 ea |
| 034000012AB | WSHR 1/4 STD. PLATED                     | 2.000 ea |
| 18006       | BRUSH ROCKER ASSY FRAME 180SERIES        | 1.000 ea |
| 18044-1     | BRUSH,180 FR. SERIES E-77 SGL/CARBON     | 2.000 ea |
| 18082-1     | BRACKET 18081                            | 1.000 ea |
| 18032       | FE BRKT MACH FR 180 STD AT               | 1.000 ea |
| 032130008BA | 5/16-18 X 1.0 HSHCS                      | 4.000 ea |
| 032130024BA | HSHCS                                    | 4.000 ea |
| HW5100A05   | WVY WSHR F/205 & 304 BRGS                | 1.000 ea |
| 15490       | LIFTING LUG,180 FRAME                    | 2.000 ea |
| 150449-25   | T BOX GRD STUD ARG 1/4 20 DIA. STUD      | 1.000 ea |
| WD4100A34   | CAPLUG IN T-SERIES T12                   | 1.000 ea |
| 032018006DK | HHCS 1/2-13X3/4 PLATED                   | 4.000 ea |
| 18026       | GASKET,T BOX COVER,FR.1803/32 THK CORK/N | 1.000 ea |
| 18027       | GASKET,ACCESS CVR,FR.180 3/32 THK DC205( | 2.000 ea |
| 032018004AK | HHCS 1/4-20X1/2 PLATED                   | 6.000 ea |
| 032018004AK | HHCS 1/4-20X1/2 PLATED                   | 6.000 ea |
| 18034       | FAN VENT GUARD-SIDE FR 18 SERIES,        | 2.000 ea |
| 18033       | FAN VENT GARD-BOTTOM FR 18 SERIES,       | 1.000 ea |
| 18019       | TERMINAL BOX COVER FRAME 180             | 1.000 ea |
| 18020       | BRUSH VENT COVER FR 18 SERIES #18 GA ST  | 1.000 ea |
| 18020       | BRUSH VENT COVER FR 18 SERIES #18 GA ST  | 1.000 ea |
| 15209       | LABEL CONNECTIONS & TERMINAL MARKIN      | 1.000 ea |
| 15021-1     | ACCESSORY FACE COVER FRAME 180-500 SERIE | 1.000 ea |
| 034180011DA | 1/4 SQ X 1.375 KEY                       | 1.000 ea |

004824007BTW

SPECIAL PAINT4824-3BVZ

0.100 ea

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**Accessories**

| Part number | Description                              | Multiplier |
|-------------|------------------------------------------|------------|
| 90EP5000A02 | C-FACE CONVERSION KIT FOR STOCK MTR,FR 1 |            |

|               |  |  |  |           |  |        |  |       |  |          |  |
|---------------|--|--|--|-----------|--|--------|--|-------|--|----------|--|
| CUSTOMER NAME |  |  |  | MODEL NO. |  |        |  | MTG.  |  | REMARKS: |  |
| CUSTOMER P.O. |  |  |  | FRAME     |  | R.P.M. |  | PHASE |  | INSUL    |  |
| CERTIFIED BY  |  |  |  | H.P.      |  | TYPE   |  | VOLTS |  | AMB.     |  |
| DATE          |  |  |  |           |  | ENCL   |  | FREQ. |  |          |  |

|        |      |        |      |             |      |             |     |           |   |
|--------|------|--------|------|-------------|------|-------------|-----|-----------|---|
| UNITS: | INCH | SCALE: | NONE | PROPORTION: | NONE | PART NUMBER | 875 | DWG. SIZE | A |
|--------|------|--------|------|-------------|------|-------------|-----|-----------|---|

1/2-13UNC-2B THD X .75 DEEP  
4-HOLES EQ. SPACED AT 90°  
ON A 7.250 DIA. B.C.

3/8-16UNC-2B THD  
X .88 DEEP IN SHAFT  
END.

45°

ACCESSORY MTG. FACE

STANDARD COMM END  
FOR SINGLE SHAFT EXTENSION

.40  
.063  
.061  
.700  
.695 DIA.  
.9846  
.9841 DIA.

FC  
C  
N  
V  
U  
P  
FV  
FN  
4(H) HOLE DIA.  
.26  
2F  
B  
BA  
N-W

P  
CONDUIT  
30°  
D  
J  
E  
2E  
A

| FRAME   | FOOT MOUNTING |      |       |     |      | D.E. SHAFT EXTENSION |      |      |       |                   | DRIVE KEY |         | ACC SHAFT EXTENSION |      |      | ACC KEY |         | FRAME    |      |       |       |       |                   |      |      | ARM APPROX. WK <sup>2</sup> LBS.FT. <sup>2</sup> | APPROXIMATE WEIGHT |
|---------|---------------|------|-------|-----|------|----------------------|------|------|-------|-------------------|-----------|---------|---------------------|------|------|---------|---------|----------|------|-------|-------|-------|-------------------|------|------|--------------------------------------------------|--------------------|
|         | 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    |                                                  |                    |
| L182AT  | 2.75          | 3.75 | 4.50  | .38 | .406 | 1.50                 | 2.90 | 2.77 | 1.125 | 2.50 <sup>3</sup> | .13       | .250    | 1.38                | 2.28 | .875 | 2.03    | .188    | 1.38     | 8.81 | 5.75  | 15.81 | 17.37 | 4.50 <sup>2</sup> | 8.94 | 8.88 | .28                                              | 84 <sup>5</sup>    |
| L186AT  | 2.75          | 3.75 | 7.00  | .38 | .406 | 1.50                 | 2.90 | 2.77 | 1.125 | 2.50 <sup>3</sup> | .13       | .250    | 1.38                | 2.28 | .875 | 2.03    | .188    | 1.38     | 8.81 | 8.25  | 19.31 | 20.87 | 4.50 <sup>2</sup> | 8.94 | 8.88 | .67                                              | 159 <sup>5</sup>   |
| L1810AT | 2.75          | 3.75 | 11.00 | .38 | .406 | 1.50                 | 2.90 | 2.77 | 1.125 | 2.50 <sup>3</sup> | .13       | .250    | 1.38                | 2.28 | .875 | 2.03    | .188    | 1.38     | 8.81 | 12.25 | 22.21 | 23.78 | 4.50 <sup>2</sup> | 9.00 | 9.00 | 1.0                                              | 195 <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 - .030
- 3) 'V' DIMENSION IS MAX. HUB LENGTH ON SHAFT
- 4) CONDUIT BOX CAN BE ROTATED IN 90° STEPS ON ITS OWN AXIS.
- 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

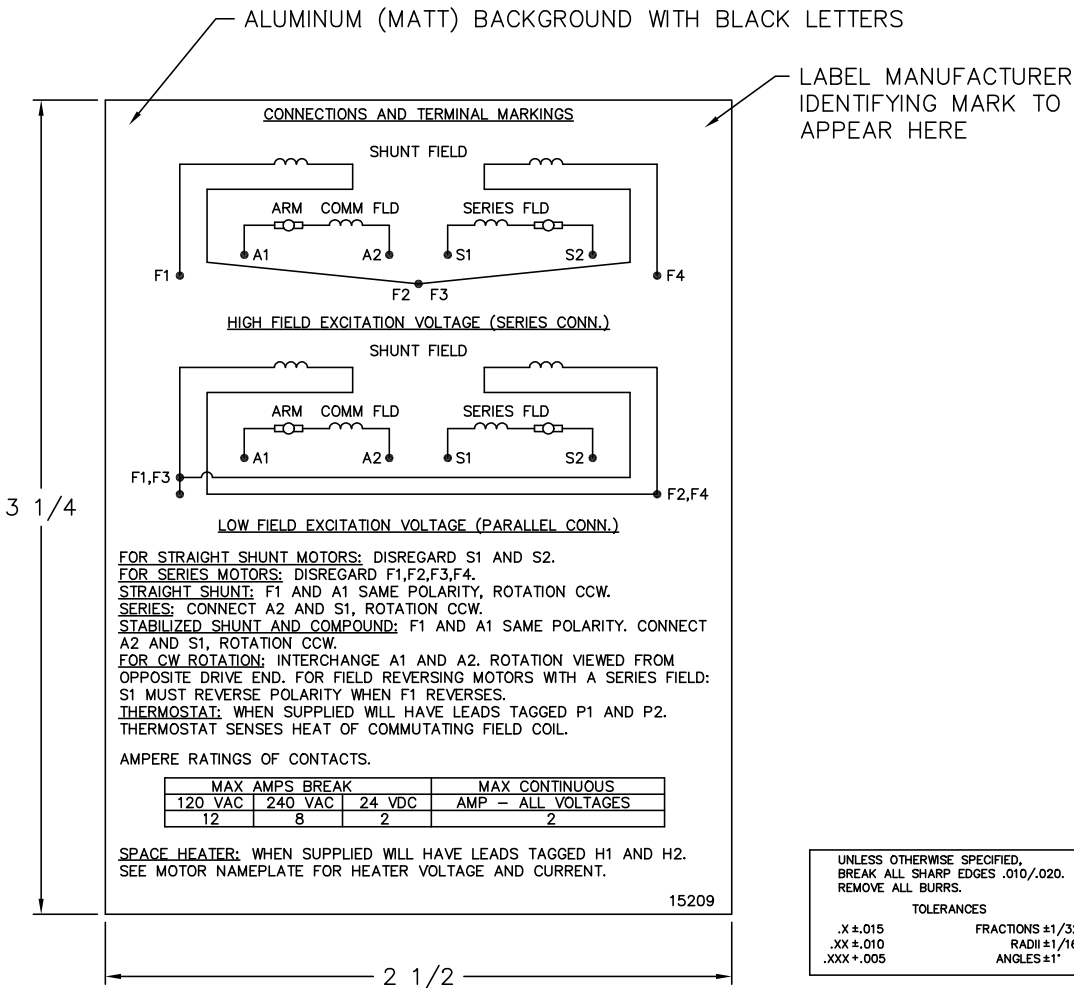
  

|                            |  |  |  |                          |  |  |  |                                        |  |  |  |                |  |           |  |
|----------------------------|--|--|--|--------------------------|--|--|--|----------------------------------------|--|--|--|----------------|--|-----------|--|
| DESIGNER<br>CSL<br>7-19-91 |  |  |  | <b>BALDOR</b>            |  |  |  | TITLE: DIMENSION SHEET<br>DPFG, STD AT |  |  |  |                |  |           |  |
| ENGINEER<br>RFL<br>7-19-91 |  |  |  |                          |  |  |  |                                        |  |  |  |                |  |           |  |
| ENGINEER<br>DAG<br>7-19-91 |  |  |  | MANUF.<br>RWT<br>7-19-91 |  |  |  | PART NUMBER<br>875                     |  |  |  | DWG. SIZE<br>A |  | REV.<br>A |  |

|      |       |             |     |           |
|------|-------|-------------|-----|-----------|
| A    | 19032 | REDRAWN     | CSL | 7-19-1991 |
| REV. | ECO.  | DESCRIPTION | BY  | DATE      |

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.

15209

|             |   |                                        |                   |
|-------------|---|----------------------------------------|-------------------|
| 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