

# ABB BALDOR RELIANCE III

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## Customer information packet D5050P

0328AT, 50HP, 1750RPM, 500, 300, DPFG, F1

**Specifications**

|                                 |                       |
|---------------------------------|-----------------------|
| <b>Armature Voltage</b>         | 500 V                 |
| <b>Base Speed</b>               | 1750 rpm              |
| <b>Enclosure</b>                | DPFG                  |
| <b>Field Voltage</b>            | 300 V                 |
| <b>Frame</b>                    | 328AT                 |
| <b>Output Power</b>             | 50.000 HP             |
| <b>Agency Approvals</b>         | CSA                   |
| <b>Ambient Temperature</b>      | 40 °C                 |
| <b>Armature Current</b>         | 83.7 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>     | F1                    |
| <b>Overall Length</b>           | 38.58 IN              |
| <b>Service Factor</b>           | 1.00                  |
| <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>     | A          |
| <b>Type</b>         | DC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | K0078A B   |
| <b>Layout</b>       | 877-1      |
| <b>Eff. date</b>    | 10-03-2023 |
| <b>CD Diagram</b>   | 15209      |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 12-18-2019 |

**Nameplate**

| NP1734      |         |           |           |       |                     |       |         |            |     |
|-------------|---------|-----------|-----------|-------|---------------------|-------|---------|------------|-----|
| CAT.NO.     | D5050P  |           |           | MODEL | T32S8002            |       |         |            |     |
| HP          | 50      | RPM       | 1750/2100 |       | FRAME               |       | 0328AT  |            |     |
| ARM V       | 500     |           | ARM A     |       | 83.70               | WOUND |         | STR. SHUNT |     |
| FLD V       | 150/300 |           | FLD A     |       | 4.00-2.04/2.00-1.02 |       |         |            |     |
| CONN        |         |           | OHMS      |       | 105                 |       | CL      |            | F   |
| ENCL        | DPFG    |           | DUTY      |       | CONT                |       | MX AMB  |            | 40  |
| P CODE      | D       |           | CTSR      |       |                     |       | SER.F.  |            | 1.0 |
| S/N         |         |           |           | E/S   | K0078A B            |       |         |            |     |
|             |         |           |           |       |                     |       |         |            |     |
|             |         |           |           |       |                     |       |         |            |     |
| O.D.E. BRG. | 6210    | D.E. BRG. | 6211      |       | BRUSH               |       | 28610-2 |            |     |
|             |         |           |           |       |                     |       |         | QTY        | 4   |

**Parts List**

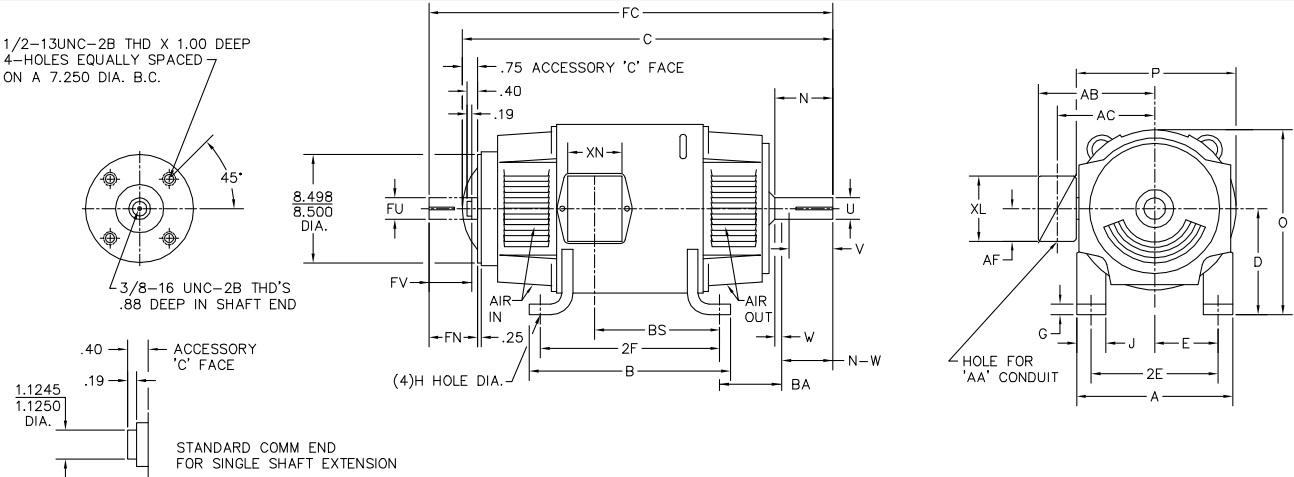
| Part number | Description                            | Quantity  |
|-------------|----------------------------------------|-----------|
| SA377214    | SA T32S8002                            | 1.000 ea  |
| AA018232    | AA T32S8002                            | 1.000 ea  |
| 036170004DA | DRSCW METRIC NAMEPLATE                 | 4.000 ea  |
| NP1734      | NPL,BALDOR DC MTR ALUMINUM             | 1.000 ea  |
| 032018004BK | HHCS 5/16-18X1/2 PLATED                | 2.000 ea  |
| 15094       | DISHED LOCKWASHER .332 ID, .865 OD     | 2.000 ea  |
| BP5228R02   | BRUSH ROCKER ASSY, FR 28/32 2 BR/STUD  | 1.000 ea  |
| 28610-2SP   | BRUSH,280/320FR.,E-77                  | 4.000 ea  |
| 32031-5     | CE BRKT MACH FR 320 FOR LOCKED C.E     | 1.000 ea  |
| 32029-10    | BRKT,STD. LOCKED C/E 320AT             | 1.000 ea  |
| 004824015A  | GREASE POLYREX EM                      | 0.400 lb  |
| 032130010DA | 1/2-13 X 1.25 HSHCS                    | 4.000 ea  |
| 032018040DK | HHCS 1/2-13X5L PLATED                  | 4.000 ea  |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF           | 1.000 ea  |
| 400638001G  | WAVEN (Customer number 43699)          | 1.000 ea  |
| HW4500A17   | 317400 ALEMITE GREASE RELIEF           | 1.000 ea  |
| 035000001A  | ALFTG 1/8" 1610-BL                     | 1.000 ea  |
| 035000001A  | ALFTG 1/8" 1610-BL                     | 1.000 ea  |
| 032130016BA | HSHCS OUTER CAP LE                     | 4.000 ea  |
| 150449-31   | GRD STUD ARG .312DIA STUD              | 1.000 ea  |
| 15024-7     | 28021-2/BOX FR. 280/3201/8" THK.,MUELL | 1.000 ea  |
| 15024-7     | 28021-2/BOX FR. 280/3201/8" THK.,MUELL | 1.000 ea  |
| 032018006DK | HHCS 1/2-13X3/4 PLATED                 | 4.000 ea  |
| 15115       | TERM BOX HOLE COVER FRAME 280 & 320    | 1.000 ea  |
| 032018004AK | HHCS 1/4-20X1/2 PLATED                 | 4.000 ea  |
| 32020-2     | GASKET COVER COM END FRAME 320 SERIES  | 3.000 ea  |
| 32020-1     | GASKET, COVER, FAN END                 | 3.000 ea  |
| 032018004BK | HHCS 5/16-18X1/2 PLATED                | 28.000 ea |
| 32046-1     | VENT COVER FRAME 32 SERIES             | 3.000 ea  |
| 32019-2     | ACCESS COVER FRAME 32 SERIES           | 1.000 ea  |
| 32046-2     | VENT COVER FRAME 32 SERIES             | 2.000 ea  |

|              |                                          |          |
|--------------|------------------------------------------|----------|
| 15599-37     | DRIVE SCR,#10 X.37 TYPE UPLATED STEEL    | 7.000 ea |
| 32023-1      | LOUVERED SMILE COVER, FR 320             | 1.000 ea |
| 15024-6      | TERM.BOX BASE FR-320, DUREX P/N:3SP      | 1.000 ea |
| 15024-4      | TERM.BOX CVR. FR-28,32,36DUREX P/N:D618  | 1.000 ea |
| 15024-5      | GASKET, T.BOX COVER                      | 1.000 ea |
| 032018004AK  | HHCS 1/4-20X1/2 PLATED                   | 2.000 ea |
| 032018008BK  | HHCS 5/16-18X1L PLATED                   | 4.000 ea |
| 15209        | LABEL CONNECTIONS & TERMINAL MARKIN      | 1.000 ea |
| 15021-1      | ACCESSORY FACE COVER FRAME 180-500 SERIE | 1.000 ea |
| 034180025GA  | KEY,DE                                   | 1.000 ea |
| 004824007BTW | SPECIAL PAINT4824-3BVZ                   | 0.100 ea |

**Accessories**

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

877-1



|        | 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     |  |
| 327AT  | 5.25          | 6.25 | 14.00 | .81 | .656 | 3.00 | 4.40                 | 4.25 | 2.125 | 4.00 <sup>3</sup> | .15 | .500      | 3.12     | 3.94                | 1.875 | 3.69 | .500    | 2.81     | 15.88 | 15.75 | 33.50 | 36.71 | 8.00 <sup>2</sup> | 15.94 | 15.88 |  |
| 328AT  | 5.25          | 6.25 | 16.00 | .81 | .656 | 3.00 | 4.40                 | 4.25 | 2.125 | 4.00 <sup>3</sup> | .15 | .500      | 3.12     | 3.94                | 1.875 | 3.69 | .500    | 2.81     | 15.88 | 17.75 | 35.38 | 38.58 | 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 | 4.00 <sup>3</sup> | .15 | .500      | 3.12     | 3.94                | 1.875 | 3.69 | .500    | 2.81     | 15.88 | 19.75 | 37.38 | 40.58 | 8.00 <sup>2</sup> | 15.94 | 15.88 |  |
| 365AT  | 5.88          | 7.00 | 12.25 | .81 | .813 | 3.25 | 4.94                 | 4.75 | 2.375 | 4.50 <sup>3</sup> | .19 | .625      | 3.50     | 4.62                | 2.125 | 4.37 | .500    | 3.13     | 17.75 | 13.75 | 33.69 | 37.56 | 9.00 <sup>2</sup> | 17.94 | 17.88 |  |
| 366AT  | 5.88          | 7.00 | 14.00 | .81 | .813 | 3.25 | 4.94                 | 4.75 | 2.375 | 4.50 <sup>3</sup> | .19 | .625      | 3.50     | 4.62                | 2.125 | 4.37 | .500    | 3.13     | 17.75 | 15.50 | 35.88 | 39.75 | 9.00 <sup>2</sup> | 17.94 | 17.88 |  |
| 368AT  | 5.88          | 7.00 | 18.00 | .81 | .813 | 3.25 | 4.94                 | 4.75 | 2.375 | 4.50 <sup>3</sup> | .19 | .625      | 3.50     | 4.62                | 2.125 | 4.37 | .500    | 3.13     | 17.75 | 19.50 | 38.88 | 42.75 | 9.00 <sup>2</sup> | 17.94 | 17.88 |  |
| 3610AT | 5.88          | 7.00 | 22.00 | .81 | .813 | 3.25 | 4.94                 | 4.75 | 2.375 | 4.50 <sup>3</sup> | .19 | .625      | 3.50     | 4.62                | 2.125 | 4.37 | .500    | 3.13     | 17.75 | 23.50 | 42.20 | 46.10 | 9.00 <sup>2</sup> | 17.94 | 17.88 |  |
| 3612AT | 5.88          | 7.00 | 28.00 | .81 | .813 | 3.25 | 4.94                 | 4.75 | 2.375 | 4.50 <sup>3</sup> | .19 | .625      | 3.50     | 4.62                | 2.125 | 4.37 | .500    | 3.13     | 17.75 | 29.50 | 46.31 | 49.10 | 9.00 <sup>2</sup> | 17.94 | 17.88 |  |

| CONDUIT BOX |       |       |       |      |       |       |      | ARM<br>APPROX.<br>WK <sup>2</sup><br>LBS.FT. <sup>2</sup> | APPROXIMATE<br>WEIGHT |
|-------------|-------|-------|-------|------|-------|-------|------|-----------------------------------------------------------|-----------------------|
| FRAME       | AA    | AB    | AC    | AF   | BS    | XL    | XN   |                                                           |                       |
| 327AT       | 2     | 12.94 | 10.32 | 5.00 | 11.81 | 7.88  | 5.25 | 8.45                                                      | 700 <sup>5</sup>      |
| 328AT       | 2     | 12.94 | 10.32 | 5.00 | 13.68 | 7.88  | 5.25 | 9.67                                                      | 775 <sup>5</sup>      |
| 329AT       | 2     | 12.94 | 10.32 | 5.00 | 15.68 | 7.88  | 5.25 | 10.97                                                     | 884 <sup>5</sup>      |
| 365AT       | 2 1/2 | 14.06 | 11.38 | 5.00 | 9.06  | 7.88  | 5.25 | 15.61                                                     | 765 <sup>5</sup>      |
| 366AT       | 2 1/2 | 14.06 | 11.38 | 5.00 | 11.25 | 7.88  | 5.25 | 18.27                                                     | 875 <sup>5</sup>      |
| 368AT       | 2 1/2 | 14.06 | 11.38 | 5.00 | 14.25 | 7.88  | 5.25 | 22.21                                                     | 1036 <sup>5</sup>     |
| 3610AT      | 3     | 16.86 | 13.09 | 6.53 | 18.25 | 11.63 | 7.76 | 28.00                                                     | 1070 <sup>5</sup>     |
| 3612AT      | 3     | 16.86 | 13.09 | 6.53 | 24.25 | 11.63 | 7.76 | 31.60                                                     | 1136 <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) 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

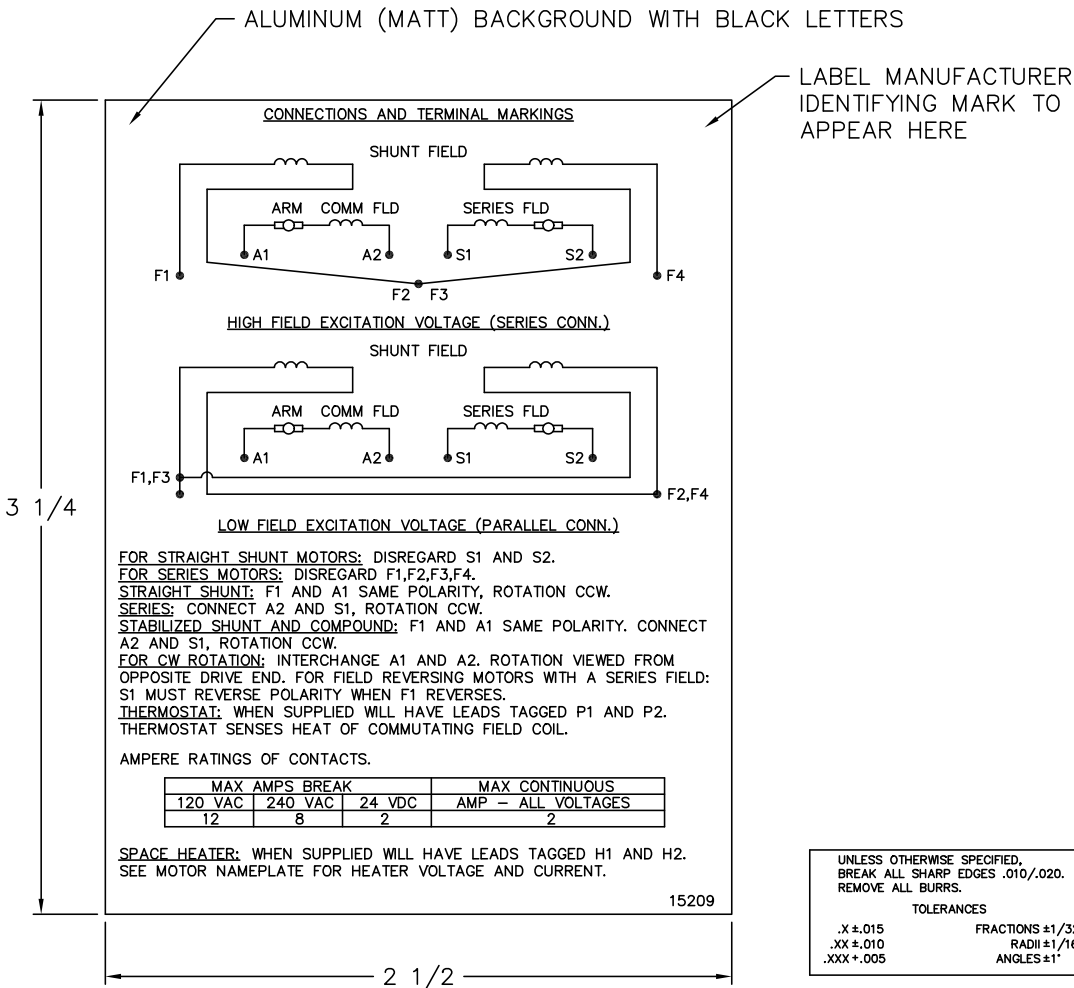
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                          |                              |                   |
|--------------------------|------------------------------|-------------------|
| REV. DESC: RELOAD TO BUS |                              |                   |
| REV. LTR: C              | VERSION: 02                  | TDR: 000000773327 |
| FILE: \RGG\00019\101     | REVISED: 10:43:23 11/09/2012 | BY: RGGWT         |
| MTL: -                   |                              |                   |

**BALDOR**  
DIM SHEET  
SH 1 of 1

877-1

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

REVISED: 02/19/97

FILE: CHB00002485

TDR: 0115147

**BALDOR ELECTRIC Co.**

LABEL, CONNECTIONS AND TERMINAL MARKINGS DC

15209