

# ABB BALDOR RELIANCE III

---

## Customer information packet

### D50400R-BV

400HP, 1750RPM, DC, 4013ATZ, DPG-FV,

**Specifications**

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Enclosure</b>                | DP                      |
| <b>Frame</b>                    | MC4013ATZ               |
| <b>Frame Material</b>           | Exposed Laminations     |
| <b>Output Power</b>             | 400.000 HP              |
| <b>Agency Approvals</b>         | CCSA US                 |
| <b>Ambient Temperature</b>      | 40 °C                   |
| <b>Bearing Grease Type</b>      | Polyrex EM (-20F +300F) |
| <b>Drip Cover</b>               | No Drip Cover           |
| <b>Feedback Device</b>          | NO FEEDBACK             |
| <b>Field Winding Type</b>       | STR. SHUNT              |
| <b>Frame Prefix</b>             | MC                      |
| <b>Heater Indicator</b>         | No Heater               |
| <b>Lifting Lugs</b>             | Standard Lifting Lugs   |
| <b>Motor Standards</b>          | NEMA                    |
| <b>Mounting Arrangement</b>     | F2                      |
| <b>Overall Length</b>           | 56.94 IN                |
| <b>Shaft Extension Location</b> | Pulley End              |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding      |
| <b>Shaft Slinger Indicator</b>  | No Slinger              |

**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>  | G7518A A   |
| <b>Layout</b>       | 609962-013 |
| <b>Eff. date</b>    | 08-30-2023 |
| <b>CD Diagram</b>   |            |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-09-2015 |

**Nameplate**

| 000613006HP     |            |             |                   |      |       |     |  |  |  |
|-----------------|------------|-------------|-------------------|------|-------|-----|--|--|--|
| CAT.NO.         | D50400R-BV | SPEC NO.    | T40S1314          |      |       |     |  |  |  |
| FR              | MC 4013ATZ | HP          | 400               | DUTY | CONT  |     |  |  |  |
| ENCL.           | DP         | RPM         | 1750/2000         |      | S.F.  | 1.0 |  |  |  |
| ENCL MOD        | FORCE VENT | VOLTS       | 500               |      | INSUL | F   |  |  |  |
| MAX SAFE SPEED  | 03000      | AMPS        | 640.00            |      | AMB.  | 40  |  |  |  |
| FIELD DATA      |            | SER.NO.     |                   |      |       |     |  |  |  |
| WINDING         | STR. SHUNT | POWER CODE  | C                 |      |       |     |  |  |  |
| VOLTS           | 300        | D.E. BRG.   | 95BC02J30X        |      |       |     |  |  |  |
| MAX AMPS @ 25 C | 11.94      | O.D.E. BRG. | 95BC02J30X        |      |       |     |  |  |  |
| HOT AMPS        | 8.27/7.10  | MIN. AMB.   | 0                 |      | TYPE  | TR  |  |  |  |
|                 |            |             | BRUSH:419904052AB |      |       |     |  |  |  |

**Parts List**

| <b>Part number</b> | <b>Description</b>                       | <b>Quantity</b> |
|--------------------|------------------------------------------|-----------------|
| SA297002           | SA T40S1314                              | 1.000 ea        |
| AA016053           | AA T40S1314                              | 1.000 ea        |
| 000613006HP        | NAMEPLATE - RPM III D-C MOTOR W/CSA LOGO | 1.000 ea        |
| 000692000FP        | NP, WARNING LIFT INSTRUCTIONS            | 1.000 ea        |
| 033775004EA        | DRSCR #6-1/4 304 S.S.                    | 8.000 ea        |
| 000692000FS        | WARNING LABEL                            | 1.000 ea        |
| 036000014JB        | M8 X 1.25X14MM HXHDCS                    | 4.000 ea        |
| 036000020KB        | MHHCS M10-1.5X20MM PLTD.                 | 4.000 ea        |
| 036501009AB        | M8-1.25 X 9MM HEX NUTS                   | 8.000 ea        |
| 036600009AB        | METRIC FLWASH M8 PLATED                  | 4.000 ea        |
| 036610010AB        | MHSLW M10 PLATED                         | 4.000 ea        |
| 419904-52AB        | BRUSH C                                  | 16.000 ea       |
| 419905003A         | FLAT WASHER ROCKER RPM III RGG           | 4.000 ea        |
| 419905004A         | HARDWARE                                 | 8.000 ea        |
| 706364052RJ        | BRHLD METRIC SPRING CHG.                 | 4.000 ea        |
| 706372015RA        | ROCKR C400                               | 1.000 ea        |
| 004824015A         | GREASE POLYREX EM                        | 0.900 lb        |
| 034693001AB        | PPLG - G508- use 034692001AB             | 1.000 ea        |
| 034693001AB        | PPLG - G508- use 034692001AB             | 1.000 ea        |
| 035000001A         | ALFTG 1/8" 1610-BL                       | 1.000 ea        |
| 035000001BB        | GREASE FTG,GRS.IN                        | 1.000 ea        |
| 036000075KB        | HHCS M10 75MM ZINCPLAT                   | 4.000 ea        |
| 036100100KA        | HSHCS BRACKET LE                         | 4.000 ea        |
| 036500013AB        | M16 X 2.0 HX NUT,ODE BRKT 304589         | 4.000 ea        |
| 036500013AB        | M16 X 2.0 HX NUT,ODE BRKT 304589         | 4.000 ea        |
| 406055001C         | GRFTG                                    | 1.000 ea        |
| 418150003A         | GREASE FITTING CAP                       | 2.000 ea        |
| 419912001B         | W WASHER                                 | 1.000 ea        |
| 609830005AK        | TBOLT METRIC C400                        | 4.000 ea        |
| 610490001JP        | 46M 2P TEFC VER 143TCZ SUPER E, CE       | 1.000 ea        |
| 801934002C         | BRKT,ODE,C400                            | 1.000 ea        |

|             |                                   |          |
|-------------|-----------------------------------|----------|
| 801935002A  | BRKT,DE,C400                      | 1.000 ea |
| 000613006NT | NAME PLATE IEC                    | 1.000 ea |
| 032018004CK | HHCS 3/8-16X1/2L PLATED           | 4.000 ea |
| 032018006CK | HHCS 3/8-16X3/4L PLATED 411409    | 4.000 ea |
| 034017014AB | LCKW 3/8 STD. PLATED              | 4.000 ea |
| 036000012JB | M8-1.25 X 12MM HXHDC              | 3.000 ea |
| 036000016KB | HHCSM10-1.5X16MM PLTD-280         | 2.000 ea |
| 036000020JB | HHCS M8-1.25X20L PLTD-250         | 2.000 ea |
| 036000020JB | HHCS M8-1.25X20L PLTD-250         | 6.000 ea |
| 036000045JB | M8-1.25 X 45MM HXHCS              | 2.000 ea |
| 036000060KB | HHCS,DE CAP                       | 4.000 ea |
| 036601009AB | M8 FLAT WASHER                    | 2.000 ea |
| 036601009AB | M8 FLAT WASHER                    | 2.000 ea |
| 036610009AB | MHSLW M8 SPL.PLTD-G508            | 2.000 ea |
| 036610009AB | MHSLW M8 SPL.PLTD-G508            | 2.000 ea |
| 036620010AB | M10 EXT. TOOTH LK WASHER          | 1.000 ea |
| 036620010AB | M10 EXT. TOOTH LK WASHER          | 2.000 ea |
| 410978010F  | FLANGE, INLET BLOWER HSG          | 1.000 ea |
| 410978015A  | GRILL, INLET FLANGE               | 1.000 ea |
| 417537001A  | CLAMP PLATE (MTR LEADS)           | 1.000 ea |
| 415000103F  | TLUG                              | 1.000 ea |
| 417733010B  | GASKT                             | 2.000 ea |
| 418010015A  | ADAPT C/BOX BASE                  | 1.000 ea |
| 418018074A  | GROUND LABEL G100 METRIC 160 D.C. | 4.000 ea |
| 422913001A  | SUPRT, LEAD CLAMP C400 ST         | 1.000 ea |
| 422919131   | HHCVR KIT,C400, DE, SOLID         | 1.000 ea |
| 422919133   | HHCVR KIT,C400,DE,LOUVERED        | 1.000 ea |
| 422919133   | HHCVR KIT,C400,DE,LOUVERED        | 1.000 ea |
| 422919142   | HHCVR KIT,C400,ODE,SOLID          | 1.000 ea |
| 422919142   | HHCVR KIT,C400,ODE,SOLID          | 1.000 ea |
| 611917002N  | GASKT C400                        | 1.000 ea |
| 611965001E  | BLOWER WHEEL                      | 1.000 ea |
| 706305026A  | GUARD,SHAFT                       | 1.000 ea |
| 706310015A  | CBOX C400                         | 1.000 ea |

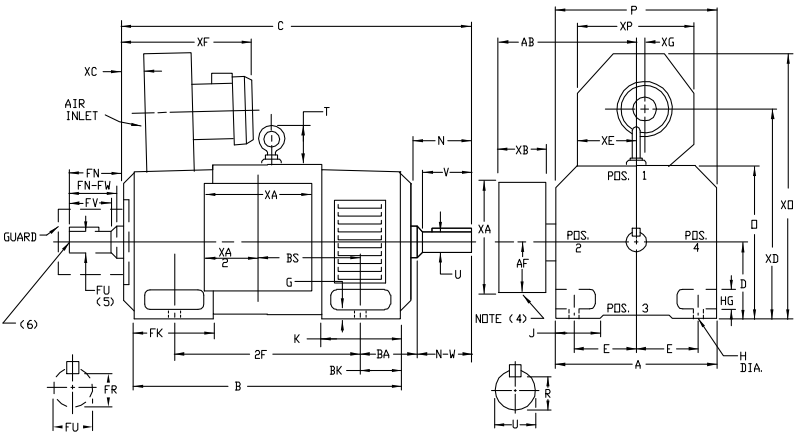
|             |                              |          |
|-------------|------------------------------|----------|
| 706313062A  | BLOWER HOUSING               | 1.000 ea |
| 000640000P  | TAG WINDING THERMOST         | 1.000 ea |
| 000692000NG | LABEL ;NP 4POLE METRIC LABEL | 1.000 ea |
| 004824007K  | SPECIAL PAINT                | 0.300 ea |
| 034180046KA | KEY 7/8X7/8X5-3/4L           | 1.000 ea |
| 418018071   | LABEL LABE                   | 1.000 ea |

609962-013

INDUSTRIAL DIRECT CURRENT MOTORS  
AND GENERATORS - RPM III

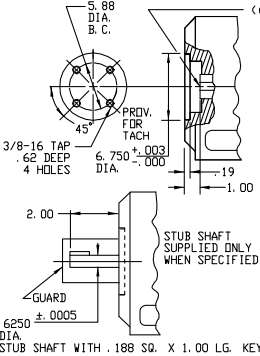
ENCLOSURE: DRIP-PROOF FULLY-GUARDED COOLING: FORCE VENTILATED  
WITH INTEGRAL  
SPLASHPROOF BLOWER AND MOTOR  
MOUNTING: FOOT ACCESSORIES: PROVISION FOR  
TACHOMETER MOUNTING  
ONLY WHEN SPECIFIED

FRAMES C4011ATZ THRU ULC4013ATZ



DIMENSIONS ARE IN INCHES

| FRAME               |                 | A     | DC(1) | E     | G     | H    | HG   | J     | D     | P     | T     | BA   | K    | FK    | BK     | AB    | AF    | RH(6) |      |          |
|---------------------|-----------------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|------|------|-------|--------|-------|-------|-------|------|----------|
| C4011ATZ-ULC4013ATZ |                 | 19.38 | 10.00 | 8.00  | 1.06  | 1.06 | 2.82 | 3.50  | 19.81 | 19.56 | 4.31  | 6.62 | 8.75 | 12.12 | 5.25   | 16.12 | 8.00  | .6240 |      |          |
| FRAME               | METHOD OF DRIVE | C(7)  | B     | BS    | 2F    | N    | N-W  | UC(2) | V     | R(3)  | SQ    | LGTH | FN   | FN-FW | FUC(2) | FV    | FR(3) | SQ    | LGTH | WT. LBS. |
| C4011ATZ            | COUPLED         | 52.19 | 42.06 | 16.00 | 28.00 | 7.62 | 7.25 | 3.625 | 7.00  | 3.134 | .875  | 5.75 | 7.62 | 7.25  | 3.625  | 7.00  | 3.134 | .875  | 5.75 | 2500     |
| UC4011ATZ           | BELTED          | 53.19 | 42.06 | 16.00 | 28.00 | 8.62 | 8.25 | 4.125 | 8.00  | 3.563 | 1.000 | 6.50 | 7.62 | 7.25  | 3.625  | 7.00  | 3.134 | .875  | 5.75 | 2505     |
| MC4013ATZ           | COUPLED         | 56.94 | 46.81 | 20.75 | 36.00 | 7.62 | 7.25 | 3.625 | 7.00  | 3.134 | .875  | 5.75 | 7.62 | 7.25  | 3.625  | 7.00  | 3.134 | .875  | 5.75 | 2800     |
| UMC4013ATZ          | BELTED          | 57.94 | 46.81 | 20.75 | 36.00 | 8.62 | 8.25 | 4.125 | 8.00  | 3.563 | 1.000 | 6.50 | 7.62 | 7.25  | 3.625  | 7.00  | 3.134 | .875  | 5.75 | 2805     |
| LC4013ATZ           | COUPLED         | 60.19 | 50.06 | 24.00 | 36.00 | 7.62 | 7.25 | 3.625 | 7.00  | 3.134 | .875  | 5.75 | 7.62 | 7.25  | 3.625  | 7.00  | 3.134 | .875  | 5.75 | 3100     |
| ULC4013ATZ          | BELTED          | 61.19 | 50.06 | 24.00 | 36.00 | 8.62 | 8.25 | 4.125 | 8.00  | 3.563 | 1.000 | 6.50 | 7.62 | 7.25  | 3.625  | 7.00  | 3.134 | .875  | 5.75 | 3105     |



- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .06 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.  
(2) "UP" AND "FUP" VARY ----- .000 - .001  
(3) "R" AND "FR" VARY ----- .000 - .015  
(4) CUSTOMER TO PROVIDE HOLE IN TERMINAL BOX FOR CONDUIT.  
(5) OPPOSITE DRIVE END SHAFT SUPPLIED ONLY WHEN SPECIFIED.  
(6) MOTOR SHAFT TAPPED FOR SCREW-IN STUB SHAFT  
(7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF OPP. DRIVE END, ADD .25 TO "C" DIM. FOR BRACKET COVER.

TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F=2, W=1, W=4, W=5, W=7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. BLOWER ASSEMBLY CAN BE LOCATED AT POSITIONS 1, 2, OR 4, EXCEPT MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

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

|                          |                              |                   |
|--------------------------|------------------------------|-------------------|
| REV. DESC: LOADED TO BUS | VERSION: 00                  | TDR: 000000577407 |
| REV. LTR: -              | REVISED: 12:04:54 01/26/2011 | BY: CONNAS        |
| FILE: \RGG\00015\600     |                              |                   |
| MTL: -                   |                              |                   |

**BALDOR**

DIMENSION DRAWING, C4011ATZ - ULC4013ATZ, DPP, FOOT MTG.

SH 1 of 1

609962-013