

# ABB BALDOR RELIANCE III

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## Customer information packet

### D2030R-BV

30HP, 1750RPM, DC, 2113ATZ, DPG-FV,

**Specifications**

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Enclosure</b>                | DP                      |
| <b>Frame</b>                    | LC2113ATZ               |
| <b>Frame Material</b>           | Steel                   |
| <b>Output Power</b>             | 30.000 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>             | LC                      |
| <b>Heater Indicator</b>         | No Heater               |
| <b>Lifting Lugs</b>             | Standard Lifting Lugs   |
| <b>Motor Standards</b>          | NEMA                    |
| <b>Mounting Arrangement</b>     | F1                      |
| <b>Overall Length</b>           | 31.25 IN                |
| <b>Shaft Extension Location</b> | Pulley End              |
| <b>Shaft Ground Indicator</b>   | No Shaft Grounding      |
| <b>Shaft Slinger Indicator</b>  | No Slinger              |

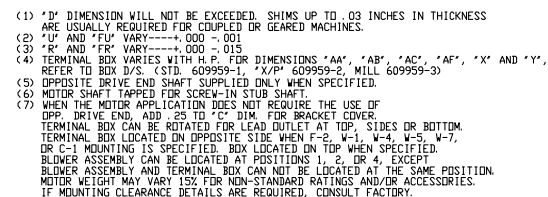
**Part Detail**

|                     |            |
|---------------------|------------|
| <b>Revision</b>     | -          |
| <b>Type</b>         | DC         |
| <b>Mech. spec.</b>  |            |
| <b>Base</b>         |            |
| <b>Status</b>       | PRD/A      |
| <b>Elec. spec.</b>  | G6014C B   |
| <b>Layout</b>       | 616002-001 |
| <b>Eff. date</b>    | 04-13-2015 |
| <b>CD Diagram</b>   | 406770-006 |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-09-2015 |

**Nameplate**

| 000613006HP       |            |             |            |            |      |       |      |    |  |
|-------------------|------------|-------------|------------|------------|------|-------|------|----|--|
| CAT.NO.           | D2030R-BV  | SPEC NO.    |            | T21T1375   |      |       |      |    |  |
| FR                | LC 2113ATZ | HP          | 30         |            | DUTY |       | CONT |    |  |
| ENCL.             | DP         | RPM         | 1750/ 2300 |            |      | S.F.  | 1.0  |    |  |
| ENCL MOD          | FORCE VENT | VOLTS       |            | 240        |      | INSUL |      | F  |  |
| MAX SAFE SPEED    | 4500       | AMPS        |            | 109.00     |      | AMB.  |      | 40 |  |
| FIELD DATA        |            | SER.NO.     |            |            |      |       |      |    |  |
| WINDING           | STR SHUNT  | POWER CODE  |            | C          |      |       |      |    |  |
| VOLTS             | 150        | D.E. BRG.   |            | 50BC03J30X |      |       |      |    |  |
| MAX AMPS @ 25 C   | 10.07      | O.D.E. BRG. |            | 45BC02J30X |      |       |      |    |  |
| HOT AMPS          | 7.17/ 4.42 | MIN. AMB.   |            | 0          |      | TYPE  |      | TR |  |
| BRUSH:419904051AB |            |             |            |            |      |       |      |    |  |

ACCESSORIES: PROVISION FOR  
TACHOMETER MOUNTING  
ONLY WHEN SPECIFIED



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

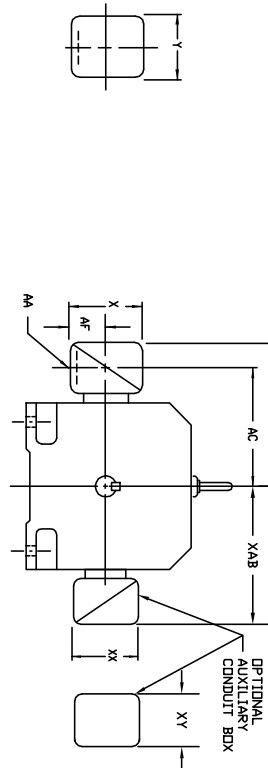
**BALDOR**  
 DIMENSION DRAWING,SC2113ATZ – LC2115ATZ,DPP,FOOT MTG  
 SH 1 of 1

**INDUSTRIAL DIRECT CURRENT MOTORS  
AND GENERATORS - RPM III**

TERMINAL BOX DIMENSIONS

STANDARD SIZE AND ONE SIZE LARGER  
FRAMES C2113A1Z THRU C2815A1Z

**DIMENSIONS ARE IN INCHES**



| STEEL THERMAL BOX DIMENSIONS |               |               |       |      |       |       |            |            |                 |       |      |       |       |            |  |
|------------------------------|---------------|---------------|-------|------|-------|-------|------------|------------|-----------------|-------|------|-------|-------|------------|--|
| FRAME<br>SIZE                | MAX.<br>AREA  | STANDARD SIZE |       |      |       |       | PART       |            | END SIZE LARGER |       |      |       |       | PART       |  |
|                              |               | AB            | AC    | AF   | AE    | Y     | NUMBER     | AA(1)      | AB              | AC    | AF   | AE    | Y     | NUMBER     |  |
| C21(19)17                    | 40 3/4 x 1"   | 8.97          | 7.47  | 1.94 | 4.38  | 5.00  | 705029-1-R | 1-1/4      | 10.03           | 8.03  | 2.50 | 5.50  | 6.12  | 705029-1-R |  |
| C21(19)17                    | 1-1/4 x 1-1/2 | 10.03         | 8.03  | 2.50 | 5.50  | 6.12  | 705029-1-R | 2" & 2-1/2 | 11.16           | 8.41  | 3.19 | 7.00  | 7.62  | 705030-1-R |  |
| C21(19)17                    | 2" & 2-1/2    | 11.16         | 8.41  | 3.19 | 7.00  | 7.62  | 705030-1-R | 2" & 2-1/2 | 11.16           | 8.41  | 3.19 | 7.00  | 7.62  | 705030-1-R |  |
| C25(12)17                    | 40 3/4 x 1"   | 10.03         | 8.53  | 1.94 | 4.88  | 5.00  | 705028-1-R | 1-1/4      | 11.09           | 9.09  | 2.50 | 5.50  | 6.12  | 705030-1-R |  |
| C25(12)17                    | 1-1/4 x 1-1/2 | 11.09         | 9.09  | 2.50 | 5.50  | 6.12  | 705029-1-R | 2" & 2-1/2 | 12.22           | 9.47  | 3.19 | 7.00  | 7.62  | 705030-1-R |  |
| C25(12)17                    | 2" & 2-1/2    | 12.22         | 9.47  | 3.19 | 7.00  | 7.62  | 705030-1-R | 2" & 2-1/2 | 12.22           | 9.47  | 3.19 | 7.00  | 7.62  | 705030-1-R |  |
| C28(15)17                    | 40 3/4 x 1"   | 14.03         | 10.53 | 4.25 | 8.44  | 7.53  | 74874-R    | 3"         | 14.47           | 11.22 | 4.25 | 8.44  | 7.53  | 74874-R    |  |
| C28(15)17                    | 1-1/4 x 1-1/2 | 14.47         | 11.22 | 4.25 | 8.44  | 7.53  | 74874-R    | 2"         | 15.91           | 11.84 | 3.98 | 10.56 | 9.00  | 705030-3-R |  |
| C28(15)17                    | 2"            | 15.91         | 11.84 | 3.98 | 10.56 | 9.00  | 705030-3-R | 3"         | 17.43           | 12.73 | 4.65 | 11.55 | 10.00 | 705030-3-R |  |
| C28(15)17                    | 3"            | 17.43         | 12.73 | 4.65 | 11.55 | 10.00 | 705030-3-R | 4"         | 18.72           | 13.47 | 5.00 | 12.73 | 11.50 | 705030-3-R |  |

| CAST IRON TERNAL BOX DIMENSIONS |           |               |       |      |      |       |                 |        |       |       |      |       |       |            |
|---------------------------------|-----------|---------------|-------|------|------|-------|-----------------|--------|-------|-------|------|-------|-------|------------|
| FRAME SIZE                      | MAX. AMPS | STANDARD SIZE |       |      |      |       | ONE SIZE LARGER |        |       |       |      |       |       |            |
|                                 |           | AB            | AC    | AF   | X    | Y     | AB              | AC     | AF    | X     | Y    |       |       |            |
|                                 |           | PART          |       |      |      |       | PART            |        |       |       |      |       |       |            |
|                                 |           | NUMBER        |       |      |      |       | NUMBER          |        |       |       |      |       |       |            |
|                                 |           | MAC3          |       |      |      |       | NUMBER          |        |       |       |      |       |       |            |
| 18                              | 3/4       | 10.03         | 8.03  | 2.50 | 5.00 | 5.75  | 7050E9-2-S      | 1"     | 10.03 | 8.03  | 2.50 | 5.00  | 5.75  | 7050E9-2-R |
| 23119A7                         | 40        | 10.03         | 8.03  | 2.50 | 5.00 | 5.75  | 7050E9-2-T      | 1-1/2  | 10.97 | 8.53  | 3.00 | 6.00  | 7.00  | 7050E9-2-R |
| 23119A7                         | 1-1/2     | 10.97         | 8.53  | 3.00 | 6.00 | 7.00  | 7050E9-2-R      | 2"     | 10.97 | 8.53  | 3.00 | 6.00  | 7.00  | 7050E9-2-S |
| 23119A7                         | 96        | 10.97         | 8.53  | 3.00 | 6.00 | 7.00  | 7050E9-2-S      | 2-1/2  | 12.66 | 8.91  | 3.62 | 7.88  | 9.25  | 7050E9-2-R |
| 208                             | 2"        | 10.97         | 8.53  | 3.00 | 6.00 | 7.00  | 7050E9-2-R      | 2-1/2  | 12.66 | 8.91  | 3.62 | 7.88  | 9.25  | 7050E9-2-S |
| 18                              | 3/4       | 11.09         | 9.09  | 2.50 | 5.00 | 5.75  | 7050E8-2-T      | 1"     | 11.09 | 9.09  | 2.50 | 5.00  | 5.75  | 7050E8-2-R |
| 25512A7                         | 40        | 11.09         | 9.09  | 2.50 | 5.00 | 5.75  | 7050E8-2-T      | 1-1/2  | 12.03 | 9.59  | 3.00 | 6.00  | 7.00  | 7050E9-2-R |
| 25514A7                         | 96        | 12.03         | 9.59  | 3.00 | 6.00 | 7.00  | 7050E9-2-R      | 2"     | 12.03 | 9.59  | 3.00 | 6.00  | 7.00  | 7050E9-2-S |
| 25514A7                         | 2"        | 12.03         | 9.59  | 3.00 | 6.00 | 7.00  | 7050E9-2-S      | 2-1/2  | 13.72 | 9.97  | 3.62 | 7.88  | 9.25  | 7050E9-2-R |
| 208                             | 2"        | 12.03         | 9.59  | 3.00 | 6.00 | 7.00  | 7050E9-2-R      | 2-1/2  | 13.72 | 9.97  | 3.62 | 7.88  | 9.25  | 7050E9-2-S |
| 128                             | 3"        | 12.78         | 10.34 | 3.00 | 6.00 | 7.00  | 75460-T         | 3"     | 14.47 | 10.72 | 3.62 | 7.88  | 9.25  | 7050E9-2-R |
| 15812A7                         | 40        | 14.47         | 10.72 | 3.62 | 7.88 | 9.25  | 7050E9-2-R      | 3"     | 14.47 | 10.72 | 3.62 | 7.88  | 9.25  | 7050E9-2-S |
| 15812A7                         | 185       | 14.47         | 10.72 | 3.62 | 7.88 | 9.25  | 7050E9-2-R      | 3"     | 15.78 | 11.59 | 4.12 | 7.50  | 10.50 | 7050E9-2-R |
| 15812A7                         | 2"        | 15.78         | 11.59 | 4.12 | 7.50 | 10.50 | 7050E9-2-S      | 5" (4) | 18.59 | 13.34 | 5.17 | 10.50 | 15.00 | 7050E9-2-S |
| 665                             | 4"        | 15.78         | 11.59 | 4.12 | 7.50 | 10.50 | 7050E9-2-S      | 5" (4) | 18.59 | 13.34 | 5.17 | 10.50 | 15.00 | 7050E9-2-S |

| CONDUIT BOX DIMENSIONS WITH TERMINAL BORDERS (IEC TYPE BOX) |      |       |       |      |       |     |       |                          |                          |  |
|-------------------------------------------------------------|------|-------|-------|------|-------|-----|-------|--------------------------|--------------------------|--|
| STANDARD SIZE                                               |      |       |       |      |       |     |       |                          |                          |  |
| FRAME SIZE                                                  | AMPS | AB    | AC    | AF   | X     | AA  | Y     | PART NUMBER              | PART NUMBER              |  |
| C210                                                        | 100  | 10.71 | 8.98  | 2.72 | 7.48  | --- | 7.48  | 706310-56-A              | 706310-225-R             |  |
|                                                             | 200  | 11.26 | 9.25  | 3.35 | 8.82  | --- | 8.82  | 706310-56-B              | 706310-225-R             |  |
|                                                             | 100  | 11.30 | 9.57  | 2.72 | 7.48  | --- | 7.48  | 706310-56-A              | 706310-225-R             |  |
|                                                             | 200  | 11.85 | 9.84  | 3.35 | 8.82  | --- | 8.82  | 706310-56-B              | 706310-225-R             |  |
| C250                                                        | 400  | 17.48 | 12.75 | 6.20 | 14.39 | --- | 14.39 | 706310-63-B & 706310-636 | 706310-63-B & 706310-636 |  |
|                                                             | 800  | 17.48 | 12.75 | 6.20 | 14.39 | --- | 14.39 | 706310-63-B & 706310-636 | 706310-63-B & 706310-636 |  |
|                                                             | 200  | 12.60 | 10.99 | 3.76 | 8.82  | --- | 8.82  | 706310-56-B              | 706310-225-R             |  |
|                                                             | 400  | 18.27 | 13.54 | 6.20 | 14.39 | --- | 14.39 | 706310-63-B & 706310-636 | 706310-63-B & 706310-636 |  |
| C280                                                        | 800  | 18.27 | 13.54 | 6.20 | 14.39 | --- | 14.39 | 706310-63-B & 706310-636 | 706310-63-B & 706310-636 |  |
|                                                             | 1600 | 18.27 | 13.54 | 7.68 | 15.35 | --- | 15.35 | 706310-63-C              | 706310-63-C              |  |

| FRAME SIZE |      | X-Y  |      | PART NUMBER |      |
|------------|------|------|------|-------------|------|
| C310       | 7.48 | 4.25 | 4.25 | 602007-26-A | C310 |
| C350       | 8.44 | 4.23 | 4.23 | 602007-26-A | C350 |
| C380       | 9.12 | 4.23 | 4.23 | 602007-26-A | C380 |

- (1) STEEL CONDUIT.  
(2) "AA" TERMINAL BOX FOR CELL13A17 AND C5512A17  
(3) FRAMES PROVIDED WITH DOUBLE KNOCKOUT.  
(4) "AA" PIPE TAB.
- (4) TERMINAL BOX 76870-05 AND 76870-0R EXTENDS BELOW MOTOR FEET.  
TERMINAL BOX CAN BE ROUTED FOR LEAD OUTLET AT TOP, SIZES OR BOTTOM  
TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, W-4, W-5, W-7,  
OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED.  
FOR "X"PP TERMINAL BOX DIMENSIONS SEE 609393-2  
FOR "LL" TYPE TERMINAL BOX DIMENSIONS SEE 609393-3.

609959-001

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

|                                                         |             |                              |
|---------------------------------------------------------|-------------|------------------------------|
| REV. DESC: ADD 706310-63G C/BOX TO C250 AND C280 FRAMES |             |                              |
| REV. LTR: A                                             | VERSION: 01 | TDR: 000000816512            |
| FILE: \RGG\00021\153                                    |             | REVISED: 03:09:09 09/06/2013 |
| MTL: -                                                  |             | BY: RGGWT                    |

# BALDOR

DIMENSION SHEET

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