

# ABB BALDOR RELIANCE III

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## Customer information packet D5020R

20HP, 1750RPM, DC, 2113ATZ, DPG,

**Specifications**

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Enclosure</b>                | DP                      |
| <b>Frame</b>                    | MC2113ATZ               |
| <b>Frame Material</b>           | Steel                   |
| <b>Output Power</b>             | 20.000 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>       | STAB 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>     | F1                      |
| <b>Overall Length</b>           | 29.62 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>  | G6060B A   |
| <b>Layout</b>       | 609950-001 |
| <b>Eff. date</b>    | 04-13-2015 |
| <b>CD Diagram</b>   | 406770-002 |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-09-2015 |

**Nameplate**

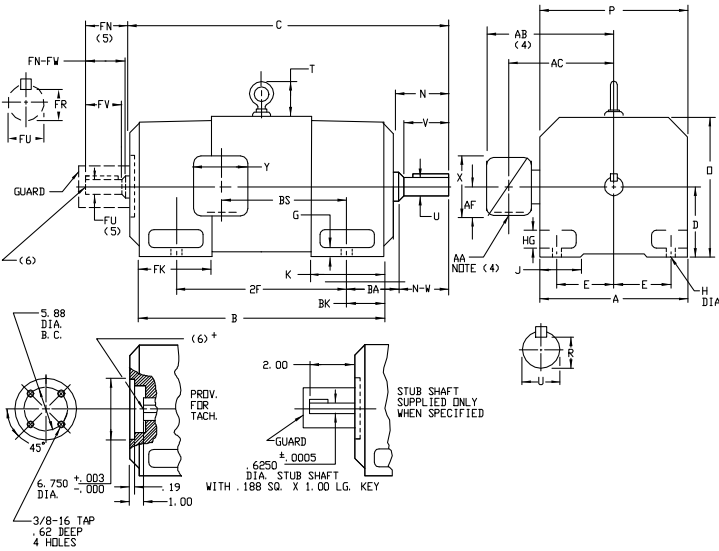
| 000613006HP                  |            |             |            |            |      |       |      |    |  |
|------------------------------|------------|-------------|------------|------------|------|-------|------|----|--|
| CAT.NO.                      | D5020R     | SPEC NO.    |            | T21S1323   |      |       |      |    |  |
| FR                           | MC 2113ATZ | HP          | 20         |            | DUTY |       | CONT |    |  |
| ENCL.                        | DP         | RPM         | 1750/ 2300 |            |      | S.F.  | 1.0  |    |  |
| ENCL MOD                     | GUARDED    | VOLTS       |            | 500        |      | INSUL |      | F  |  |
| MAX SAFE SPEED               | 4500       | AMPS        |            | 35.00      |      | AMB.  |      | 40 |  |
| FIELD DATA                   |            | SER.NO.     |            |            |      |       |      |    |  |
| WINDING                      | STAB SHUNT | POWER CODE  |            | C          |      |       |      |    |  |
| VOLTS                        | 300        | D.E. BRG.   |            | 50BC03J30X |      |       |      |    |  |
| MAX AMPS @ 25 C              | 1.98       | O.D.E. BRG. |            | 45BC02J30X |      |       |      |    |  |
| HOT AMPS                     | 1.39/ .99  | MIN. AMB.   |            | 0          |      | TYPE  |      | TR |  |
| BRUSH:419904051AB; FLD. DATA |            |             |            |            |      |       |      |    |  |
| FOR HIGH VOLTS; FIELD VOLTS  |            |             |            |            |      |       |      |    |  |
| 150/300                      |            |             |            |            |      |       |      |    |  |

609950-001

INDUSTRIAL DIRECT CURRENT MOTORS  
AND GENERATORS - RPM III

ENCLOSURE: DRIP-PROOF FULLY-GUARDED, COOLING: SELF-VENTILATED  
SPLASHPROOF, TOTALLY ENCLOSED NON-VENTILATED  
MOUNTING: FOOT ACCESSORIES: PROVISION FOR  
METHOD OF DRIVE: COUPLED OR BELTED TACHOMETER MOUNTING  
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES; SEE 609950-1M FOR DIMENSIONS IN MILLIMETERS

| FRAME               | A     | X(1) | E    | G  | H  | HG   | J    | D     | P     | T    | BA   | K    | FK   | BK   |
|---------------------|-------|------|------|----|----|------|------|-------|-------|------|------|------|------|------|
| SC2113ATZ-LC2113ATZ | 10.25 | 5.25 | 4.25 | 44 | 44 | 1.38 | 1.75 | 10.44 | 10.31 | 2.56 | 3.50 | 5.19 | 6.81 | 2.38 |
| SC2512ATZ-LC2512ATZ | 12.31 | 6.25 | 5.00 | 50 | 56 | 1.62 | 2.00 | 12.50 | 12.44 | 3.06 | 4.25 | 6.06 | 8.00 | 3.00 |
| MC2812ATZ-LC2812ATZ | 13.78 | 7.00 | 5.50 | 62 | 56 | 1.88 | 2.75 | 14.00 | 13.94 | 3.38 | 4.75 | 6.75 | 9.19 | 3.50 |

| FRAME     | D(7)  | B     | BS    | 2F    | N    | N-W  | UK(2) | V    | R(3)  | SQ   | LGTH. | FN   | FN-FW | FK(2) | FV   | FR(3) | SV   | LGTH. | WT. |
|-----------|-------|-------|-------|-------|------|------|-------|------|-------|------|-------|------|-------|-------|------|-------|------|-------|-----|
| SC2113ATZ | 28.38 | 22.50 | 11.38 | 18.00 | 4.00 | 3.75 | 1.875 | 3.50 | 1.591 | .500 | 2.50  | 3.50 | 3.25  | 1.625 | 3.00 | 1.416 | .375 | 2.25  | 315 |
| MC2113ATZ | 29.62 | 23.75 | 12.62 | 18.00 | 4.00 | 3.75 | 1.875 | 3.50 | 1.591 | .500 | 2.50  | 3.50 | 3.25  | 1.625 | 3.00 | 1.416 | .375 | 2.25  | 340 |
| LC2113ATZ | 31.25 | 25.38 | 14.25 | 18.00 | 4.00 | 3.75 | 1.875 | 3.50 | 1.591 | .500 | 2.50  | 3.50 | 3.25  | 1.625 | 3.00 | 1.416 | .375 | 2.25  | 370 |
| SC2512ATZ | 31.69 | 25.06 | 13.56 | 20.00 | 4.50 | 4.25 | 2.125 | 4.00 | 1.845 | .500 | 3.00  | 4.00 | 3.75  | 1.875 | 3.50 | 1.591 | .500 | 2.50  | 505 |
| MC2512ATZ | 33.19 | 26.56 | 15.06 | 20.00 | 4.50 | 4.25 | 2.125 | 4.00 | 1.845 | .500 | 3.00  | 4.00 | 3.75  | 1.875 | 3.50 | 1.591 | .500 | 2.50  | 540 |
| LC2512ATZ | 34.69 | 28.06 | 16.56 | 20.00 | 4.50 | 4.25 | 2.125 | 4.00 | 1.845 | .500 | 3.00  | 4.00 | 3.75  | 1.875 | 3.50 | 1.591 | .500 | 2.50  | 580 |
| MC2812ATZ | 37.38 | 29.94 | 18.25 | 22.00 | 5.00 | 4.75 | 2.375 | 4.50 | 2.021 | .625 | 3.50  | 4.50 | 4.25  | 2.125 | 4.00 | 1.845 | .500 | 3.00  | 775 |
| LC2812ATZ | 39.62 | 32.19 | 19.50 | 22.00 | 5.00 | 4.75 | 2.375 | 4.50 | 2.021 | .625 | 3.50  | 4.50 | 4.25  | 2.125 | 4.00 | 1.845 | .500 | 3.00  | 850 |

- (1) "D" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.  
(2) "U" AND "FU" VARY-----+ .000 - .001  
(3) "R" AND "FR" VARY-----+ .000 - .015  
(4) TERMINAL BOX VARIES WITH H.P. FOR DIMENSIONS "AA", "AB", "AC", "AF", "X" AND "Y". REFER TO BOX D/S. (STD. 609959-1, "X/P" 609959-2, MILL 609959-3)  
(5) OPPOSITE DRIVE END SHFT SUPPLIED ONLY WHEN SPECIFIED.  
(6) MOTOR SHFT TAPPED FOR 3/8X1 IN STUB SHFT.  
(7) WHEN THE MOTOR APPLICATION DOES NOT REQUIRE THE USE OF DFP, DRIVE END, ADD .25 TO "C" DIA. FOR BRACKET COVER.  
TERMINAL BOX CAN BE ROTATED FOR LEAD OUTLET AT TOP, SIDES OR BOTTOM. TERMINAL BOX LOCATED ON OPPOSITE SIDE WHEN F-2, V-1, W-4, V-5, W-7, OR C-1 MOUNTING IS SPECIFIED. BOX LOCATED ON TOP WHEN SPECIFIED. MOTOR WEIGHT MAY VARY 15% FOR NON-STANDARD RATINGS AND/OR ACCESSORIES. IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

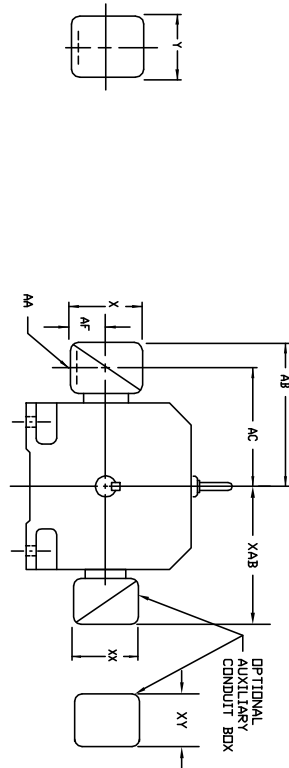
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                          |                              |                   |
|--------------------------|------------------------------|-------------------|
| REV. DESC: LOADED TO BUS | VERSION: 00                  | TDR: 000000577407 |
| REV. LTR: -              | REVISED: 10:21:19 01/26/2011 | BY: RGGBG         |
| FILE: \RGG\00015\543     |                              |                   |
| MTL: -                   |                              |                   |

|                                                               |
|---------------------------------------------------------------|
| <b>BALDOR</b>                                                 |
| DIMENSION DRAWING, SC2113ATZ - LC2812ATZ, DPP, TENV, FOOT MTG |
| SH 1 of 1                                                     |

609950-001

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 |      |      |      |                |            | END SIZE LARGER |        |       |      |                |            |            |            |
|                              |                    | AB            | AC   | X    | Y    | PART<br>NUMBER | A(A1)      | AB              | AC     | X     | Y    | PART<br>NUMBER |            |            |            |
| C911N37                      | 40 3/4 x 1'        | 8.97          | 7.47 | 1.94 | 4.38 | 5.00           | 705028-1-R | 1'-1/4          | 1'-1/2 | 10.03 | 8.03 | 2.50           | 5.50       | 6.12       | 705029-1-R |
| C211S12                      | 56 1'-1/4 x 1'-1/2 | 10.03         | 8.03 | 2.50 | 5.50 | 705028-1-R     | 2' & -1/2  |                 | 11.16  | 8.41  | 3.19 | 7.00           | 7.62       | 705030-1-R |            |
| 200 2' & -1/2                | 11.16              | 8.41          | 3.19 | 7.00 | 7.62 | 705030-1-R     | 2' & -1/2  | 11.16           | 8.41   | 3.19  | 7.00 | 7.62           | 705030-1-R |            |            |
| 40 3/4 x 1'                  | 10.03              | 8.53          | 1.94 | 4.38 | 5.00 | 705028-1-R     | 1'-1/4     | 1'-1/2          | 11.09  | 9.09  | 2.50 | 5.50           | 6.12       | 705029-1-R |            |
| C512N17                      | 96 1'-1/4 x 1'-1/2 | 12.82         | 9.09 | 2.50 | 6.50 | 705029-1-R     | 2' & -1/2  |                 | 12.82  | 9.47  | 3.19 | 7.00           | 7.62       | 705030-1-R |            |
| C251S12                      | 208 2' & -1/2      | 12.82         | 9.47 | 3.19 | 7.00 | 705029-1-R     | 2' & -1/2  | 12.82           | 9.47   | 3.19  | 7.00 | 7.62           | 705030-1-R |            |            |
| 96 2' & -1/2                 | 14.03              | 10.53         | 4.25 | 8.44 | 7.55 | 74874-R        | 3'         |                 | 14.47  | 11.22 | 4.25 | 8.44           | 7.55       | 74874-R    |            |
| C911N37                      | 40 3/4 x 1'        | 8.97          | 7.47 | 1.94 | 4.38 | 5.00           | 705028-1-R | 1'-1/4          | 1'-1/2 | 10.03 | 8.03 | 2.50           | 5.50       | 6.12       | 705029-1-R |
| C211S12                      | 56 1'-1/4 x 1'-1/2 | 10.03         | 8.03 | 2.50 | 5.50 | 705028-1-R     | 2' & -1/2  |                 | 11.16  | 8.41  | 3.19 | 7.00           | 7.62       | 705030-1-R |            |
| 200 2' & -1/2                | 11.16              | 8.41          | 3.19 | 7.00 | 7.62 | 705030-1-R     | 2' & -1/2  | 11.16           | 8.41   | 3.19  | 7.00 | 7.62           | 705030-1-R |            |            |
| 40 3/4 x 1'                  | 10.03              | 8.53          | 1.94 | 4.38 | 5.00 | 705028-1-R     | 1'-1/4     | 1'-1/2          | 11.09  | 9.09  | 2.50 | 5.50           | 6.12       | 705029-1-R |            |
| C512N17                      | 96 1'-1/4 x 1'-1/2 | 12.82         | 9.09 | 2.50 | 6.50 | 705029-1-R     | 2' & -1/2  |                 | 12.82  | 9.47  | 3.19 | 7.00           | 7.62       | 705030-1-R |            |
| C251S12                      | 208 2' & -1/2      | 12.82         | 9.47 | 3.19 | 7.00 | 705029-1-R     | 2' & -1/2  | 12.82           | 9.47   | 3.19  | 7.00 | 7.62           | 705030-1-R |            |            |
| 96 2' & -1/2                 | 14.03              | 10.53         | 4.25 | 8.44 | 7.55 | 74874-R        | 3'         |                 | 14.47  | 11.22 | 4.25 | 8.44           | 7.55       | 74874-R    |            |
| C911N37                      | 40 3/4 x 1'        | 8.97          | 7.47 | 1.94 | 4.38 | 5.00           | 705028-1-R | 1'-1/4          | 1'-1/2 | 10.03 | 8.03 | 2.50           | 5.50       | 6.12       | 705029-1-R |
| C211S12                      | 56 1'-1/4 x 1'-1/2 | 10.03         | 8.03 | 2.50 | 5.50 | 705028-1-R     | 2' & -1/2  |                 | 11.16  | 8.41  | 3.19 | 7.00           | 7.62       | 705030-1-R |            |
| 200 2' & -1/2                | 11.16              | 8.41          | 3.19 | 7.00 | 7.62 | 705030-1-R     | 2' & -1/2  | 11.16           | 8.41   | 3.19  | 7.00 | 7.62           | 705030-1-R |            |            |
| 40 3/4 x 1'                  | 10.03              | 8.53          | 1.94 | 4.38 | 5.00 | 705028-1-R     | 1'-1/4     | 1'-1/2          | 11.09  | 9.09  | 2.50 | 5.50           | 6.12       | 705029-1-R |            |
| C512N17                      | 96 1'-1/4 x 1'-1/2 | 12.82         | 9.09 | 2.50 | 6.50 | 705029-1-R     | 2' & -1/2  |                 | 12.82  | 9.47  | 3.19 | 7.00           | 7.62       | 705030-1-R |            |
| C251S12                      | 208 2' & -1/2      | 12.82         | 9.47 | 3.19 | 7.00 | 705029-1-R     | 2' & -1/2  | 12.82           | 9.47   | 3.19  | 7.00 | 7.62           | 705030-1-R |            |            |
| 96 2' & -1/2                 | 14.03              | 10.53         | 4.25 | 8.44 | 7.55 | 74874-R        | 3'         |                 | 14.47  | 11.22 | 4.25 | 8.44           | 7.55       | 74874-R    |            |
| C911N37                      | 40 3/4 x 1'        | 8.97          | 7.47 | 1.94 | 4.38 | 5.00           | 705028-1-R | 1'-1/4          | 1'-1/2 | 10.03 | 8.03 | 2.50           | 5.50       | 6.12       | 705029-1-R |

| CAST IRON TERMINAL BOX DIMENSIONS |              |               |       |       |      |      |        |            |                 |       |       |      |        |       |            |
|-----------------------------------|--------------|---------------|-------|-------|------|------|--------|------------|-----------------|-------|-------|------|--------|-------|------------|
| FRAME<br>SIZE                     | MAX.<br>AMPS | STANDARD SIZE |       |       |      |      | PART   |            | ONE SIZE LARGER |       |       |      |        | PART  |            |
|                                   |              | AB            | AC    | AF    | X    | Y    | NUMBER | AB         | AC              | AF    | X     | Y    | NUMBER |       |            |
| C2113M12                          | 18           | 3/4           | 10.03 | 8.03  | 2.50 | 5.00 | 5.75   | 705029-2-S | 1"              | 10.03 | 8.03  | 2.50 | 5.00   | 5.75  | 705029-2-R |
| C2113M17                          | 40           | 1"            | 10.03 | 8.03  | 2.50 | 5.00 | 5.75   | 705029-2-T | 1-1/2           | 10.97 | 8.53  | 3.00 | 6.00   | 7.00  | 705029-2-R |
| C2115M12                          | 96           | 1-1/2         | 10.97 | 8.53  | 3.00 | 6.00 | 7.00   | 705029-2-R | 2"              | 10.97 | 8.53  | 3.00 | 6.00   | 7.00  | 705029-2-R |
| C2512M12                          | 208          | 2"            | 10.97 | 8.53  | 3.00 | 6.00 | 7.00   | 705029-2-R | 2-1/2           | 12.66 | 8.91  | 3.62 | 7.88   | 9.25  | 705029-2-R |
| C2512M17                          | 18           | 3/4           | 11.09 | 9.09  | 2.50 | 5.00 | 5.75   | 705028-2-T | 1"              | 11.09 | 9.09  | 2.50 | 5.00   | 5.75  | 705028-2-T |
| C2513M12                          | 40           | 1"            | 11.09 | 9.09  | 2.50 | 5.00 | 5.75   | 705028-2-T | 1-1/2           | 12.03 | 9.59  | 3.00 | 6.00   | 7.00  | 705029-2-S |
| C2513M17                          | 96           | 1-1/2         | 12.03 | 9.59  | 3.00 | 6.00 | 7.00   | 705029-2-S | 2"              | 12.03 | 9.59  | 3.00 | 6.00   | 7.00  | 705029-2-S |
| C2515M12                          | 208          | 2"            | 12.03 | 9.59  | 3.00 | 6.00 | 7.00   | 705029-2-S | 2-1/2           | 13.72 | 9.97  | 3.62 | 7.88   | 9.25  | 705029-2-S |
| C2812M12                          | 128          | 3"            | 12.78 | 10.34 | 3.00 | 6.00 | 7.00   | 756001-R   | 3"              | 14.47 | 10.72 | 3.62 | 7.88   | 9.25  | 767001-R   |
| C2812M17                          | 165          | 3"            | 14.47 | 10.72 | 3.62 | 7.88 | 9.25   | 767001-R   | 4"              | 15.78 | 11.59 | 4.12 | 9.50   | 10.50 | 767001-R   |
| C2815M12                          | 365          | 4"            | 15.78 | 11.59 | 4.12 | 9.50 | 10.50  | 767001-R   | 5" (4)          | 18.59 | 13.34 | 4.75 | 13.50  | 15.00 | 768701-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       | 7.98 | 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 TAP.
- (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                    |

# BALDOIR

DIMENSION SHEET

SH 1 of 1

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |            |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|------------|--|
| 406770-002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  | 406770-002 |  |
| <div>CONNECTION DIAGRAM<br/>D-C MOTOR - STAB. SHUNT<br/>DUAL VOLTAGE FIELD</div> <div><div><div>W1</div><div>(NOTE 7)</div></div><div><div>SHUNT FIELD</div><div>F2</div><div>INTER-COIL</div><div>AX2</div><div>A2 S1</div><div>S2 S3</div><div>S4 F22</div><div>P1</div><div>P2</div></div><div><div>ARMATURE</div><div>H1</div><div>H2</div><div>F1</div><div>A1</div></div><div><div>(NOTE 4)</div><div>(CAUTION-SEE NOTE 1)</div><div>(NOTE 2)</div><div>(NOTE 5)</div></div></div> <div><div>THREE WIRE RTD</div><div>TD</div><div>TD1</div><div>TD2</div><div>TD3</div><div>(NOTE 6)</div></div> |  |  |            |  |

ARMATURE AND FIELD EXTERNAL CONNECTIONS

WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS

CCW ROTATION

LOW VOLTAGE FIELD CONNECTION

CW ROTATION

CCW ROTATION

HIGH VOLTAGE FIELD CONNECTION

CW ROTATION

ROTATION FACING COMMUTATOR END

1. CAUTION — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS. CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.

2. OPTIONAL SERIES FIELD IS MARKED S3 AND S4. FOR CUMULATIVE SERIES FIELD, CONNECT S3 TO S2 AND CONNECT S4 TO NEGATIVE. FOR DIFFERENTIAL SERIES FIELD CONNECT S4 TO S2 AND S3 TO NEGATIVE.

3. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.

4. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.

5. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.

6. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, & TD3

7. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.

8. WARNING — MOTOR MUST BE GROUNDED TO PREVENT SERIOUS INJURIES TO PERSONNEL. GROUND THE MOTOR PER IEC, NATIONAL ELECTRICAL CODE AND ANY APPLICABLE LOCAL ELECTRICAL CODES. A TAPPED HOLE IS PROVIDED IN THE CONDUIT BOX, ON THE FOOT, FRAME BRACE OR OPPOSITE OPPOSITE DRIVE END BRACKET, ADJACENT TO THE TERMINAL BOX FOR MOTOR GROUNDING. GROUND LEAD, WHEN PROVIDED, WILL BE GREEN.

CUSTOMER

CUSTOMER

ORDER NO.

S.D. NO.

RELIANCE

REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS

REV. LTR: -

VERSION: 00

TDR: 000000781086

FILE: \RSN\00026\434

REVISED: 02: 35: 07 02/01/2013

MTL: -

BY: MGHPC

BALDOR

D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT, DUAL VOLTAGE FIELD

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