

# ABB BALDOR RELIANCE III

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## Customer information packet D5530R

30 1750/2300 LC2812ATZ TEFC 500V

**Specifications**

|                                 |                         |
|---------------------------------|-------------------------|
| <b>Enclosure</b>                | TEFC                    |
| <b>Frame</b>                    | LC2812ATZ               |
| <b>Frame Material</b>           | Exposed Laminations     |
| <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>       | STAB 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>           | 43.88 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>  | G6151A A   |
| <b>Layout</b>       | 609951-013 |
| <b>Eff. date</b>    | 11-06-2017 |
| <b>CD Diagram</b>   | 406770-002 |
| <b>Poles</b>        | 00         |
| <b>Leads</b>        |            |
| <b>Proprietary</b>  | False      |
| <b>Created date</b> | 04-10-2015 |

**Nameplate**

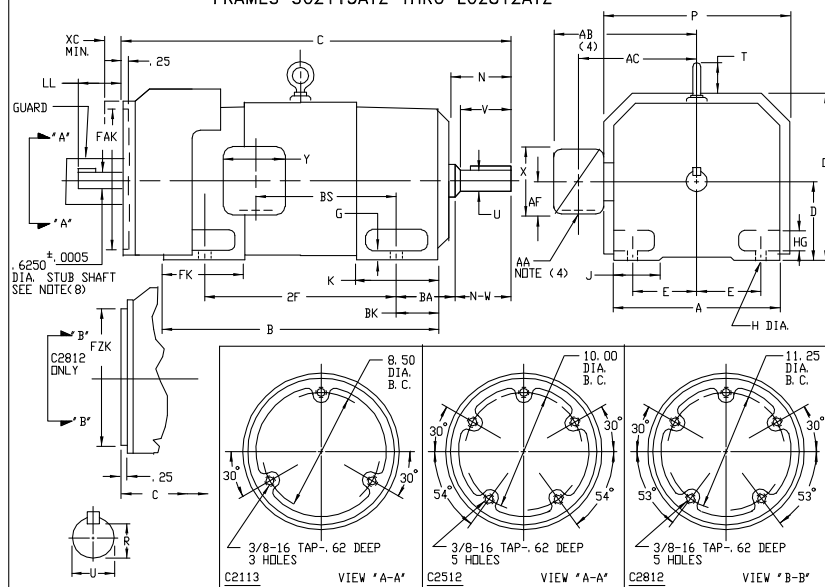
| 000613006HP            |                           |                    |            |              |      |   |  |  |  |
|------------------------|---------------------------|--------------------|------------|--------------|------|---|--|--|--|
| <b>CAT.NO.</b>         |                           | <b>SPEC NO.</b>    | T28S0303   |              |      |   |  |  |  |
| <b>FR</b>              | LC 2812ATZ                | <b>HP</b>          | 30         | <b>DUTY</b>  | CONT |   |  |  |  |
| <b>ENCL.</b>           | TEFC                      | <b>RPM</b>         | 1750/2300  | <b>S.F.</b>  | 1.0  |   |  |  |  |
| <b>ENCL MOD</b>        |                           | <b>VOLTS</b>       | 500        | <b>INSUL</b> |      | F |  |  |  |
| <b>MAX SAFE SPEED</b>  | 2450                      | <b>AMPS</b>        | 50.00      | <b>AMB.</b>  | 40   |   |  |  |  |
|                        | <b>FIELD DATA</b>         | <b>SER.NO.</b>     |            |              |      |   |  |  |  |
| <b>WINDING</b>         | STAB SHUNT                | <b>POWER CODE</b>  | C          |              |      |   |  |  |  |
| <b>VOLTS</b>           | 300                       | <b>D.E. BRG.</b>   | 65BC03J30X |              |      |   |  |  |  |
| <b>MAX AMPS @ 25 C</b> | 1.74                      | <b>O.D.E. BRG.</b> | 55BC02J30X |              |      |   |  |  |  |
| <b>HOT AMPS</b>        | 1.21/.90                  | <b>MIN. AMB.</b>   | 0          | <b>TYPE</b>  | TR   |   |  |  |  |
|                        | BRUSH:419904051AD         |                    |            |              |      |   |  |  |  |
|                        | FLD. DATA FOR HIGH VOLTS; |                    |            |              |      |   |  |  |  |

| 000692000MB         |  |
|---------------------|--|
| FIELD VOLTS 150/300 |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |
|                     |  |

ENCLOSURE: TOTALLY ENCLOSED  
MOUNTING: FOOT  
METHOD OF DRIVE: COUPLED OR BELTED

COOLING: FAN COOLED  
ACCESSORIES: PROVISION FOR  
TACHOMETER MOUNTING  
ONLY WHEN SPECIFIED

FRAMES SC2113ATZ THRU LC2812ATZ



DIMENSIONS ARE IN INCHES

| FRAME               | A     | B(1) | E    | G   | H   | HG   | J    | D     | P     | T    | BA   | K    | FK   | BK   | FAK(6) | FZK(7) | XC   |
|---------------------|-------|------|------|-----|-----|------|------|-------|-------|------|------|------|------|------|--------|--------|------|
| SC2113ATZ-LC2113ATZ | 10.25 | 5.25 | 4.25 | .44 | .44 | 1.38 | 1.75 | 11.62 | 12.75 | 1.38 | 3.50 | 5.19 | 6.81 | 2.38 | 9.750  | N/A    | 1.25 |
| SC2121ATZ-LC2121ATZ | 12.31 | 6.25 | 5.00 | .50 | .56 | 1.62 | 2.00 | 13.62 | 14.75 | 1.94 | 4.25 | 6.06 | 8.00 | 3.38 | 11.250 | N/A    | 1.25 |
| MC2812ATZ-LC2812ATZ | 13.78 | 7.00 | 5.00 | .62 | .56 | 1.88 | 2.75 | 15.06 | 16.12 | 2.31 | 4.75 | 6.75 | 9.19 | 3.50 | N/A    | 12.500 | 1.25 |

| FRAME     | C     | B     | BS    | 2F    | DRIVE ENERGY AND KEY |      |       |      |       |     |      | WT.<br>BS |
|-----------|-------|-------|-------|-------|----------------------|------|-------|------|-------|-----|------|-----------|
|           |       |       |       |       | N                    | N-W  | UK(2) | Y    | RC(3) | SD  | LGTH |           |
| SC2113A72 | 31.29 | 22.50 | 11.38 | 18.00 | 4.0                  | 3.75 | 1.875 | 3.50 | 591   | 590 | 2.50 | 355       |
| LC2113A72 | 33.44 | 23.75 | 12.62 | 18.00 | 4.0                  | 3.75 | 1.875 | 3.50 | 591   | 590 | 2.50 | 380       |
| LC2113A72 | 35.06 | 25.38 | 14.25 | 18.00 | 4.0                  | 3.75 | 1.875 | 3.50 | 591   | 590 | 2.50 | 410       |
| LC2113A72 | 35.94 | 26.50 | 12.06 | 20.00 | 4.0                  | 2.5  | 1.25  | 4.00 | 845   | 590 | 3.00 | 555       |
| SC215A72  | 37.44 | 26.56 | 13.56 | 20.00 | 4.0                  | 2.5  | 1.25  | 4.00 | 845   | 590 | 3.00 | 590       |
| LC215A72  | 38.94 | 28.06 | 15.06 | 20.00 | 4.0                  | 2.5  | 1.25  | 4.00 | 845   | 590 | 3.00 | 630       |
| SC218A72  | 41.62 | 29.94 | 14.25 | 22.00 | 5.0                  | 4.75 | 2.375 | 4.50 | 502   | 621 | 3.50 | 835       |
| LC218A72  | 43.98 | 32.19 | 16.50 | 22.00 | 5.0                  | 4.75 | 2.375 | 4.50 | 502   | 621 | 3.50 | 900       |

- (1) "B" DIMENSION WILL NOT BE EXCEEDED. SHIMS UP TO .03 INCHES IN THICKNESS ARE USUALLY REQUIRED FOR COUPLED OR GEARED MACHINES.
- (2) "E" VARIES-----, 0.000 - 0.001
- (3) "F" VARIES-----, 0.000 - .015
- (4) "G" VARIES-----, 0.000 - .015
- (5) "H" VARIES-----, 0.000 - .015
- (6) "I" VARIES-----, 0.000 - .015
- (7) "J" VARIES-----, 0.000 - .015
- (8) "K" VARIES-----, 0.000 - .015
- (9) "L" VARIES-----, 0.000 - .015
- (10) "M" VARIES-----, 0.000 - .015
- (11) "N" VARIES-----, 0.000 - .015
- (12) "O" VARIES-----, 0.000 - .015
- (13) "P" VARIES-----, 0.000 - .015
- (14) "Q" VARIES-----, 0.000 - .015
- (15) "R" VARIES-----, 0.000 - .015
- (16) "S" VARIES-----, 0.000 - .015
- (17) "T" VARIES-----, 0.000 - .015
- (18) "U" VARIES-----, 0.000 - .015
- (19) "V" VARIES-----, 0.000 - .015
- (20) "W" VARIES-----, 0.000 - .015
- (21) "X" VARIES-----, 0.000 - .015
- (22) "Y" VARIES-----, 0.000 - .015
- (23) "Z" VARIES-----, 0.000 - .015
- (24) "AA" VARIES-----, 0.000 - .015
- (25) "AB" VARIES-----, 0.000 - .015
- (26) "AC" VARIES-----, 0.000 - .015
- (27) "AD" VARIES-----, 0.000 - .015
- (28) "AE" VARIES-----, 0.000 - .015
- (29) "AF" VARIES-----, 0.000 - .015
- (30) "AG" VARIES-----, 0.000 - .015
- (31) "AH" VARIES-----, 0.000 - .015
- (32) "AI" VARIES-----, 0.000 - .015
- (33) "AJ" VARIES-----, 0.000 - .015
- (34) "AK" VARIES-----, 0.000 - .015
- (35) "AL" VARIES-----, 0.000 - .015
- (36) "AM" VARIES-----, 0.000 - .015
- (37) "AN" VARIES-----, 0.000 - .015
- (38) "AO" VARIES-----, 0.000 - .015
- (39) "AP" VARIES-----, 0.000 - .015
- (40) "AQ" VARIES-----, 0.000 - .015
- (41) "AR" VARIES-----, 0.000 - .015
- (42) "AS" VARIES-----, 0.000 - .015
- (43) "AT" VARIES-----, 0.000 - .015
- (44) "AU" VARIES-----, 0.000 - .015
- (45) "AV" VARIES-----, 0.000 - .015
- (46) "AW" VARIES-----, 0.000 - .015
- (47) "AX" VARIES-----, 0.000 - .015
- (48) "AY" VARIES-----, 0.000 - .015
- (49) "AZ" VARIES-----, 0.000 - .015
- (50) "BA" VARIES-----, 0.000 - .015
- (51) "BB" VARIES-----, 0.000 - .015
- (52) "BC" VARIES-----, 0.000 - .015
- (53) "BD" VARIES-----, 0.000 - .015
- (54) "BE" VARIES-----, 0.000 - .015
- (55) "BF" VARIES-----, 0.000 - .015
- (56) "BG" VARIES-----, 0.000 - .015
- (57) "BH" VARIES-----, 0.000 - .015
- (58) "BI" VARIES-----, 0.000 - .015
- (59) "BJ" VARIES-----, 0.000 - .015
- (60) "BK" VARIES-----, 0.000 - .015
- (61) "BL" VARIES-----, 0.000 - .015
- (62) "BM" VARIES-----, 0.000 - .015
- (63) "BN" VARIES-----, 0.000 - .015
- (64) "BO" VARIES-----, 0.000 - .015
- (65) "BP" VARIES-----, 0.000 - .015
- (66) "BQ" VARIES-----, 0.000 - .015
- (67) "BR" VARIES-----, 0.000 - .015
- (68) "BS" VARIES-----, 0.000 - .015
- (69) "BT" VARIES-----, 0.000 - .015
- (70) "BU" VARIES-----, 0.000 - .015
- (71) "BV" VARIES-----, 0.000 - .015
- (72) "BW" VARIES-----, 0.000 - .015
- (73) "BX" VARIES-----, 0.000 - .015
- (74) "BY" VARIES-----, 0.000 - .015
- (75) "BZ" VARIES-----, 0.000 - .015
- (76) "CA" VARIES-----, 0.000 - .015
- (77) "CB" VARIES-----, 0.000 - .015
- (78) "CC" VARIES-----, 0.000 - .015
- (79) "CD" VARIES-----, 0.000 - .015
- (80) "CE" VARIES-----, 0.000 - .015
- (81) "CF" VARIES-----, 0.000 - .015
- (82) "CG" VARIES-----, 0.000 - .015
- (83) "CH" VARIES-----, 0.000 - .015
- (84) "CI" VARIES-----, 0.000 - .015
- (85) "CJ" VARIES-----, 0.000 - .015
- (86) "CK" VARIES-----, 0.000 - .015
- (87) "CL" VARIES-----, 0.000 - .015
- (88) "CM" VARIES-----, 0.000 - .015
- (89) "CN" VARIES-----, 0.000 - .015
- (90) "CO" VARIES-----, 0.000 - .015
- (91) "CP" VARIES-----, 0.000 - .015
- (92) "CQ" VARIES-----, 0.000 - .015
- (93) "CR" VARIES-----, 0.000 - .015
- (94) "CS" VARIES-----, 0.000 - .015
- (95) "CT" VARIES-----, 0.000 - .015
- (96) "CU" VARIES-----, 0.000 - .015
- (97) "CV" VARIES-----, 0.000 - .015
- (98) "CW" VARIES-----, 0.000 - .015
- (99) "CX" VARIES-----, 0.000 - .015
- (100) "CY" VARIES-----, 0.000 - .015
- (101) "CZ" VARIES-----, 0.000 - .015
- (102) "DA" VARIES-----, 0.000 - .015
- (103) "DB" VARIES-----, 0.000 - .015
- (104) "DC" VARIES-----, 0.000 - .015
- (105) "DD" VARIES-----, 0.000 - .015
- (106) "DE" VARIES-----, 0.000 - .015
- (107) "DF" VARIES-----, 0.000 - .015
- (108) "DG" VARIES-----, 0.000 - .015
- (109) "DH" VARIES-----, 0.000 - .015
- (110) "DI" VARIES-----, 0.000 - .015
- (111) "DJ" VARIES-----, 0.000 - .015
- (112) "DK" VARIES-----, 0.000 - .015
- (113) "DL" VARIES-----, 0.000 - .015
- (114) "DM" VARIES-----, 0.000 - .015
- (115) "DN" VARIES-----, 0.000 - .015
- (116) "DO" VARIES-----, 0.000 - .015
- (117) "DP" VARIES-----, 0.000 - .015
- (118) "DQ" VARIES-----, 0.000 - .015
- (119) "DR" VARIES-----, 0.000 - .015
- (120) "DS" VARIES-----, 0.000 - .015
- (121) "DT" VARIES-----, 0.000 - .015
- (122) "DU" VARIES-----, 0.000 - .015
- (123) "DV" VARIES-----, 0.000 - .015
- (124) "DW" VARIES-----, 0.000 - .015
- (125) "DX" VARIES-----, 0.000 - .015
- (126) "DY" VARIES-----, 0.000 - .015
- (127) "DZ" VARIES-----, 0.000 - .015
- (128) "EA" VARIES-----, 0.000 - .015
- (129) "EB" VARIES-----, 0.000 - .015
- (130) "EC" VARIES-----, 0.000 - .015
- (131) "ED" VARIES-----, 0.000 - .015
- (132) "EE" VARIES-----, 0.000 - .015
- (133) "EF" VARIES-----, 0.000 - .015
- (134) "EG" VARIES-----, 0.000 - .015
- (135) "EH" VARIES-----, 0.000 - .015
- (136) "EI" VARIES-----, 0.000 - .015
- (137) "EJ" VARIES-----, 0.000 - .015
- (138) "EK" VARIES-----, 0.000 - .015
- (139) "EL" VARIES-----, 0.000 - .015
- (140) "EM" VARIES-----, 0.000 - .015
- (141) "EN" VARIES-----, 0.000 - .015
- (142) "EO" VARIES-----, 0.000 - .015
- (143) "EP" VARIES-----, 0.000 - .015
- (144) "EQ" VARIES-----, 0.000 - .015
- (145) "ER" VARIES-----, 0.000 - .015
- (146) "ES" VARIES-----, 0.000 - .015
- (147) "ET" VARIES-----, 0.000 - .015
- (148) "EU" VARIES-----, 0.000 - .015
- (149) "EV" VARIES-----, 0.000 - .015
- (150) "EW" VARIES-----, 0.000 - .015
- (151) "EX" VARIES-----, 0.000 - .015
- (152) "EY" VARIES-----, 0.000 - .015
- (153) "EZ" VARIES-----, 0.000 - .015
- (154) "FA" VARIES-----, 0.000 - .015
- (155) "FB" VARIES-----,

| TACHOMETER  | LU                  |
|-------------|---------------------|
| BC-42       |                     |
| BC-46       |                     |
| RD-11       |                     |
| RD-12       | 4.                  |
| RD-51       |                     |
| RD-61       |                     |
| RD-62       |                     |
| RE-210      |                     |
| M627, M628  |                     |
| M727, M737  |                     |
| M738        |                     |
| DYNAPAR 74S |                     |
| RE-045      | 3. 8                |
| SPY         | 1. 1                |
|             | SEE<br>NOTES<br>(9) |

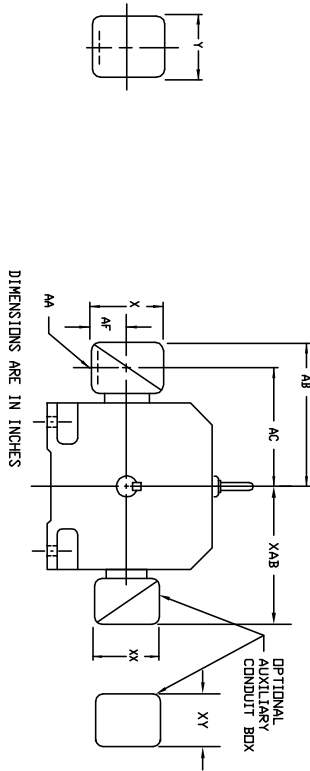
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

|                          |                              |                   |
|--------------------------|------------------------------|-------------------|
| REV. DESC: LOADED TO BUS |                              |                   |
| REV. LTR: -              | VERSION: 00                  | TDR: 000000577407 |
| FILE: \RGG\00015\557     | REVISED: 11:02:01 01/26/2011 | BY: CONNAS        |
| MTL: -                   |                              |                   |

DIMENSION DRAWING,SC2113ATZ - LC2812ATZ,TEFC,FOOT MTG

SH 1 of 1

609959-001

INDUSTRIAL DIRECT CURRENT MOTORS  
AND GENERATORS - RPM III  
TERMINAL BOX DIMENSIONS  
STANDARD SIZE AND ONE SIZE LARGER  
FRAMES C2113ATZ THRU C2815ATZ

DIMENSIONS ARE IN INCHES

| STEEL TERMINAL BOX DIMENSIONS |           |               |       |       |      |       |                 |            |               |       |       |      |       |       |            |
|-------------------------------|-----------|---------------|-------|-------|------|-------|-----------------|------------|---------------|-------|-------|------|-------|-------|------------|
| FRAME SIZE                    | MAX. AMPS | STANDARD SIZE |       |       |      |       | END SIZE LARGER |            |               |       |       |      |       |       |            |
|                               |           | AK(1)         | AB    | AC    | AF   | X     | Y               | AA(1)      | AB            | AC    | AF    | X    | Y     |       |            |
| C2113ATZ                      | 40        | 3/4 & 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 |
| C2115ATZ                      | 96        | 1-1/4 & 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 |
| (2)                           | 208       | 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 |
| C2516ATZ                      | 40        | 3/4 & 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 |
| C2514ATZ                      | 96        | 1-1/4 & 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 |
| (2)                           | 208       | 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 |
| C2816ATZ                      | 155       | 2"            | 14.03 | 10.53 | 4.25 | 8.44  | 7.25            | 74874-R    | 3"            | 14.47 | 11.22 | 4.25 | 8.44  | 7.25  | 74874-R    |
| C2815ATZ                      | 185       | 3"            | 14.47 | 11.22 | 4.25 | 8.44  | 7.25            | 74874-R    | 4"            | 15.91 | 11.84 | 5.38 | 10.56 | 9.00  | 706308-3-R |
| (2)                           | 259       | 4"            | 15.91 | 11.84 | 5.38 | 10.56 | 9.00            | 706308-3-R | 5" (4)        | 18.72 | 13.47 | 7.00 | 12.75 | 15.00 | 706589-1-C |

| CAST IRON TERMINAL BOX DIMENSIONS |           |               |       |       |      |      |       |                 |        |       |       |      |       |       |            |
|-----------------------------------|-----------|---------------|-------|-------|------|------|-------|-----------------|--------|-------|-------|------|-------|-------|------------|
| FRAME SIZE                        | MAX. AMPS | STANDARD SIZE |       |       |      |      |       | ONE SIZE LARGER |        |       |       |      |       |       |            |
|                                   |           | AK(3)         | AB    | AC    | AF   | X    | Y     | AA(3)           | AB     | AC    | AF    | X    | Y     |       |            |
| C2113ATZ                          | 18        | 3/4           | 10.03 | 8.03  | 2.50 | 5.00 | 5.75  | 705028-2-S      | 1"     | 10.03 | 8.03  | 2.50 | 5.00  | 5.75  | 705028-2-T |
| C2115ATZ                          | 40        | 1"            | 10.03 | 8.03  | 2.50 | 5.00 | 5.75  | 705028-2-T      | 1-1/2  | 10.97 | 8.53  | 3.00 | 6.00  | 7.00  | 705029-2-R |
| C2115ATZ                          | 96        | 1-1/2         | 10.97 | 8.53  | 3.00 | 6.00 | 7.00  | 705029-2-R      | 2"     | 12.66 | 8.91  | 3.62 | 7.88  | 9.25  | 705030-2-R |
| (2)                               | 208       | 2"            | 10.97 | 8.53  | 3.00 | 6.00 | 7.00  | 705029-2-S      | 2-1/2  | 12.66 | 8.91  | 3.62 | 7.88  | 9.25  | 705030-2-R |
| C2516ATZ                          | 18        | 3/4           | 11.09 | 9.09  | 2.50 | 5.00 | 5.75  | 705028-2-S      | 1"     | 11.09 | 9.09  | 2.50 | 5.00  | 5.75  | 705028-2-T |
| C2514ATZ                          | 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-R |
| C2514ATZ                          | 96        | 1-1/2         | 12.03 | 9.59  | 3.00 | 6.00 | 7.00  | 705029-2-R      | 2"     | 12.03 | 9.59  | 3.00 | 6.00  | 7.00  | 705029-2-S |
| (2)                               | 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  | 705030-2-R |
| C2813ATZ                          | 155       | 2"            | 12.78 | 10.34 | 3.00 | 6.00 | 7.00  | 75460-T         | 3"     | 14.47 | 10.72 | 3.62 | 7.88  | 9.25  | 76708-R    |
| C2815ATZ                          | 185       | 3"            | 14.47 | 10.72 | 3.62 | 7.88 | 9.25  | 76708-R         | 4"     | 15.78 | 11.59 | 4.12 | 9.50  | 10.50 | 76708-R    |
| C2815ATZ                          | 259       | 4"            | 15.78 | 11.59 | 4.12 | 9.50 | 10.50 | 76708-R         | 5" (4) | 18.59 | 13.34 | 7.00 | 12.75 | 15.00 | 76870-S    |

CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (IEC TYPE BOX)

| CONDUIT BOX DIMENSIONS WITH TERMINAL BOARDS (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  | 11.66 | 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 & 706310-63G | 706310-63-B & 706310-63G |
|                                                            | 800  | 17.48 | 12.75 | 6.20 | 14.39 | -- | 14.39 | 706310-63-B & 706310-63G | 706310-63-B & 706310-63G |
|                                                            | 200  | 12.60 | 10.59 | 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 & 706310-63G | 706310-63-B & 706310-63G |
| C280                                                       | 800  | 18.27 | 13.54 | 6.20 | 14.39 | -- | 14.39 | 706310-63-B & 706310-63G | 706310-63-B & 706310-63G |
|                                                            | 1600 | 18.27 | 13.54 | 7.68 | 15.35 | -- | 15.35 | 706310-63-C              | 706310-63-C              |

| OPTIONAL AUXILIARY CONDUIT BOX DIMENSIONS (MAXIMUM) |      |      |             |            |       |      |             |
|-----------------------------------------------------|------|------|-------------|------------|-------|------|-------------|
| FRAME SIZE                                          | XAB  | XY   | PART NUMBER | FRAME SIZE | XAB   | XY   | PART NUMBER |
| C210                                                | 7.38 | 4.25 | 602007-26-A | C210       | 10.88 | 8.00 | 706310-3-B  |
| C250                                                | 8.44 | 4.25 | 602007-26-A | C250       | 11.88 | 8.00 | 706310-3-B  |
| C280                                                | 9.12 | 4.25 | 602007-26-A | C280       | 12.62 | 8.00 | 706310-3-B  |

(1) MAX CONDUIT  
(2) RATES PROVIDED WITH DOUBLE KNUCKLE  
(3) MAX PIPE LAP(4) TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET  
TERMINAL BOX 76870-S AND 76870-98 EXTENDS BELOW MOTOR FEET  
DR C-1 MOUNTING IS SPECIFIED. BOX LOCATED IN TOP WHEN SPECIFIED.  
FOR "X"/P/TERMINAL BOX DIMENSIONS SEE 609959-2  
FOR MILL TYPE TERMINAL BOX DIMENSIONS SEE 609959-3

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 | VERSION: 01 | TDR: 000000816512              |
| REV. LTR: A                                             |             |                                |
| FILE: \RGG\00021\153                                    |             | REVISED: 03: 09: 09 09/06/2013 |
| MTL: -                                                  |             | BY: RGGWT                      |

BALDOR

DIMENSION SHEET

SH 1 of 1

609959-001

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                |                                                              |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------|--------------------------------------------------------------|--|
| 406770-002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                | 406770-002                                                   |  |
| <div>CONNECTION DIAGRAM<br/>D-C MOTOR - STAB. SHUNT<br/>DUAL VOLTAGE FIELD</div> <div><p>(NOTE 7)</p><p>W1</p><p>(NOTE 4) (CAUTION-SEE NOTE 1) (NOTE 2) (NOTE 5)</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |             |                                |                                                              |  |
| <div>ARMATURE AND FIELD EXTERNAL CONNECTIONS<br/>WARNING- SEE NOTE 8 FOR GROUNDING INSTRUCTIONS</div> <div><p>CCW ROTATION LOW VOLTAGE FIELD CONNECTION CW ROTATION</p><p>CCW ROTATION HIGH VOLTAGE FIELD CONNECTION CW ROTATION</p><p>ROTATION FACING COMMUTATOR END</p></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |             |                                |                                                              |  |
| <div>1. CAUTION — ARMATURE AND SERIES FIELD MAY HAVE MULTIPLE LEADS.<br/>CONNECT ALL LUGS WITH THE SAME MARKING TOGETHER.</div> <div>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.</div> <div>3. OPTIONAL CONTROL SIGNAL LEAD IS MARKED AX2. ALWAYS TAKE INTERPOLE DROP BETWEEN A2 AND AX2. NOTE: NEMA DESIGNATION FOR AX2 IS LETTER C.</div> <div>4. SPACE HEATERS, WHEN PROVIDED, WILL HAVE LEADS MARKED H1 AND H2, H3, H4, ETC.</div> <div>5. THERMAL PROTECTOR, WHEN PROVIDED, WILL HAVE LEADS MARKED P1 AND P2, P3, P4, ETC.</div> <div>6. WINDING RTD'S, WHEN PROVIDED, WILL HAVE LEADS MARKED TD1, TD2, &amp; TD3</div> <div>7. BRUSH WEAR SENSOR, WHEN PROVIDED, WILL HAVE LEAD MARKED W1.</div> <div>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.</div> |             |                                |                                                              |  |
| <div>CUSTOMER _____ ORDER NO. _____ S.D. NO. _____</div> <div>CUSTOMER _____ RELIANCE</div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |             |                                |                                                              |  |
| REV. DESC: UPDATE LOGO AND TITLEBLOCK: LOADED TO BUS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | <b>BALDOR</b>                  |                                                              |  |
| REV. LTR: -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | VERSION: 00 | TDR: 000000781086              | D-C MOTOR CONNECTION DIAGRAM STAB. SHUNT, DUAL VOLTAGE FIELD |  |
| FILE: \RSN\00026\434                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | REVISED: 02: 35: 07 02/01/2013 | SH 1 of 1                                                    |  |
| MTL: -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | BY: MGHPC                      |                                                              |  |