

EFFECTIVE:  
29-NOV-12

SUPERSEDES:  
02-AUG-12

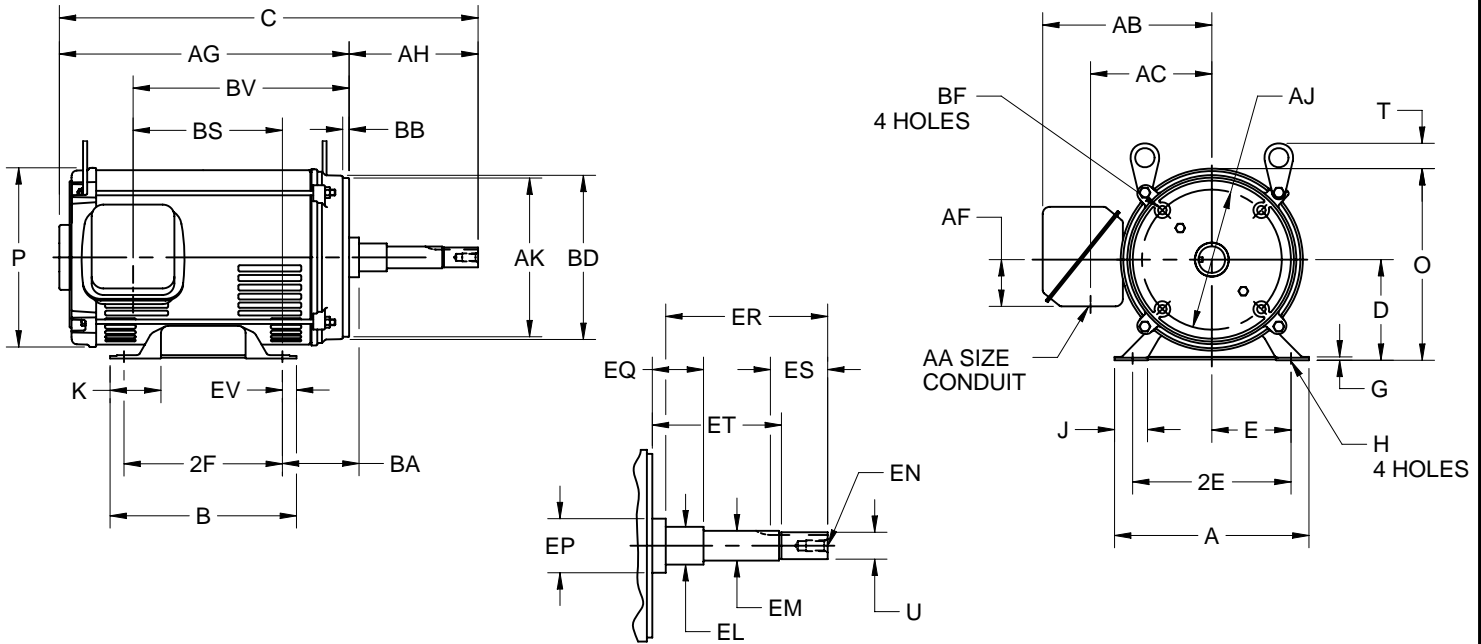
# HORIZONTAL MOTORS

## ODP-CLOSE COUPLED PUMP

FRAME: 210-250JM  
BASIC TYPE: D4

PRINT:  
07-2012

SHEET:  
1 OF 1



ALL DIMENSIONS ARE IN INCHES AND MILLIMETERS

| FRAME | UNITS | A     | D<br>-.06 | E    | 2E<br>±.03 | G   | H<br>+.05 | J    | K    | O     | P <sup>2</sup> | T    |
|-------|-------|-------|-----------|------|------------|-----|-----------|------|------|-------|----------------|------|
| 210JM | IN    | 9.50  | 5.25      | 4.25 | 8.50       | .19 | .41       | 1.00 | 1.00 | 9.96  | 9.42           | 1.25 |
|       | MM    | 241   | 133       | 108  | 216        | 5   | 10        | 25   | 25   | 253   | 239            | 32   |
| 250JM | IN    | 11.25 | 6.25      | 5.00 | 10.00      | .19 | .53       | 1.44 | 1.38 | 11.75 | 11.09          | 2.06 |
|       | MM    | 286   | 159       | 127  | 254        | 5   | 13        | 37   | 35   | 298   | 282            | 52   |

| FRAME | UNITS | U<br>-.0005 | AA   | AB    | AC   | AF   | AH<br>±.031 | AJ     | AK<br>-.003 | BA   | BB<br>±.031 | BD<br>MAX |
|-------|-------|-------------|------|-------|------|------|-------------|--------|-------------|------|-------------|-----------|
| 210JM | IN    | .8745       | 1.00 | 7.60  | 6.40 | 2.13 | 4.250       | 7.250  | 8.500       | 4.25 | .281        | 9.00      |
|       | MM    | 22.212      |      | 193   | 163  | 54   | 107.95      | 184.15 | 215.90      | 108  | 7.13        | 229       |
| 250JM | IN    | 1.2495      | 1.25 | 10.00 | 7.69 | 1.81 | 5.250       | 7.250  | 8.500       | 4.75 | .281        | 10.00     |
|       | MM    | 31.737      |      | 254   | 195  | 46   | 133.35      | 184.15 | 215.90      | 121  | 7.13        | 254       |

| FRAME | UNITS | BF <sup>3</sup> | EL<br>-.002 | EM<br>-.0005 | EN <sup>3</sup> | EP<br>MIN | EQ<br>±.015 | ER<br>MIN | ES<br>MIN | ET<br>±.015 | EV  | SQ<br>KEY |
|-------|-------|-----------------|-------------|--------------|-----------------|-----------|-------------|-----------|-----------|-------------|-----|-----------|
| 210JM | IN    | 1/2-13X.75      | 1.250       | 1.0000       | 3/8-16X.75      | 1.75      | .625        | 4.25      | 1.65      | 2.875       | .50 | .188      |
|       | MM    |                 | 31.75       | 25.400       |                 | 44        | 15.87       | 108       | 42        | 73.02       | 13  | 4.78      |
| 250JM | IN    | 1/2-13X.75      | 1.750       | 1.3750       | 1/2-13X1.00     | 1.75      | .625        | 5.25      | 2.53      | 3.000       | .63 | .250      |
|       | MM    |                 | 44.45       | 34.925       |                 | 44        | 15.87       | 133       | 64        | 76.20       | 16  | 6.35      |

| FRAME | UNITS | B     | C     | 2F<br>±.03 | AG    | BS   | BV    |
|-------|-------|-------|-------|------------|-------|------|-------|
| 213JM | IN    | 6.50  | 17.75 | 5.50       | 13.50 | 6.66 | 11.06 |
|       | MM    | 165   | 451   | 140        | 343   | 169  | 281   |
| 215JM | IN    | 8.00  | 19.25 | 7.00       | 15.00 | 8.16 | 12.56 |
|       | MM    | 203   | 489   | 178        | 381   | 461  | 319   |
| 254JM | IN    | 9.50  | 24.56 | 8.25       | 19.31 | 7.63 | 12.81 |
|       | MM    | 241   | 624   | 210        | 490   | 194  | 325   |
| 256JM | IN    | 11.25 | 25.19 | 10.00      | 19.94 | 8.25 | 13.44 |
|       | MM    | 286   | 640   | 254        | 506   | 210  | 341   |

| TOLERANCES                                  |             |
|---|-------------|
| FACE RUNOUT                                 | .004 T.I.R. |
| PERMISSIBLE ECCENTRICITY OF MOUNTING RABBET | .004 T.I.R. |
| PERMISSIBLE SHAFT RUNOUT                    | .002 T.I.R. |

1. ALL ROUGH CASTING DIMENSIONS MAY VARY BY .25" DUE TO CASTING AND OR FABRICATION VARIATIONS.
2. LARGEST MOTOR WIDTH.
3. TAP SIZE AND BOLT PENETRATION ALLOWANCE.
4. ALL TAPPED HOLES ARE UNIFIED NATIONAL COARSE, RIGHT HAND THREAD.
5. CONDUIT BOX MAY BE LOCATED ON EITHER SIDE AND CONDUIT OPENING MAY BE LOCATED IN STEPS OF 90 DEGREES REGARDLESS OF LOCATION. STANDARD AS SHOWN WITH CONDUIT OPENING DOWN.
6. TOLERANCES SHOWN ARE IN INCHES ONLY.
7. FRAME REFERENCE: 10.530/213//12.030/215  
11.125/254//11.750/256

07-2012/D

**Nidec Motor Corporation**  
St. Louis, Missouri

INFORMATION DISCLOSED ON THIS DOCUMENT IS CONSIDERED PROPRIETARY AND SHALL NOT BE REPRODUCED OR DISCLOSED WITHOUT WRITTEN CONSENT OF NIDEC MOTOR CORPORATION



ISSUED BY  
**R. KING**  
APPROVED BY  
**J. O'BRIEN**

IHP\_DP\_NMCA (MAR-2011) SOLIDEDGE