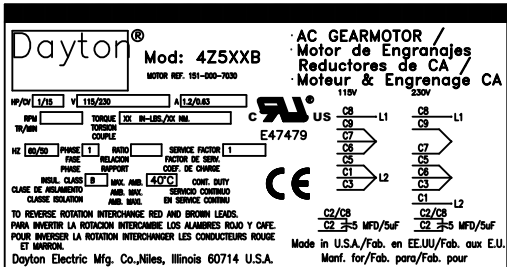
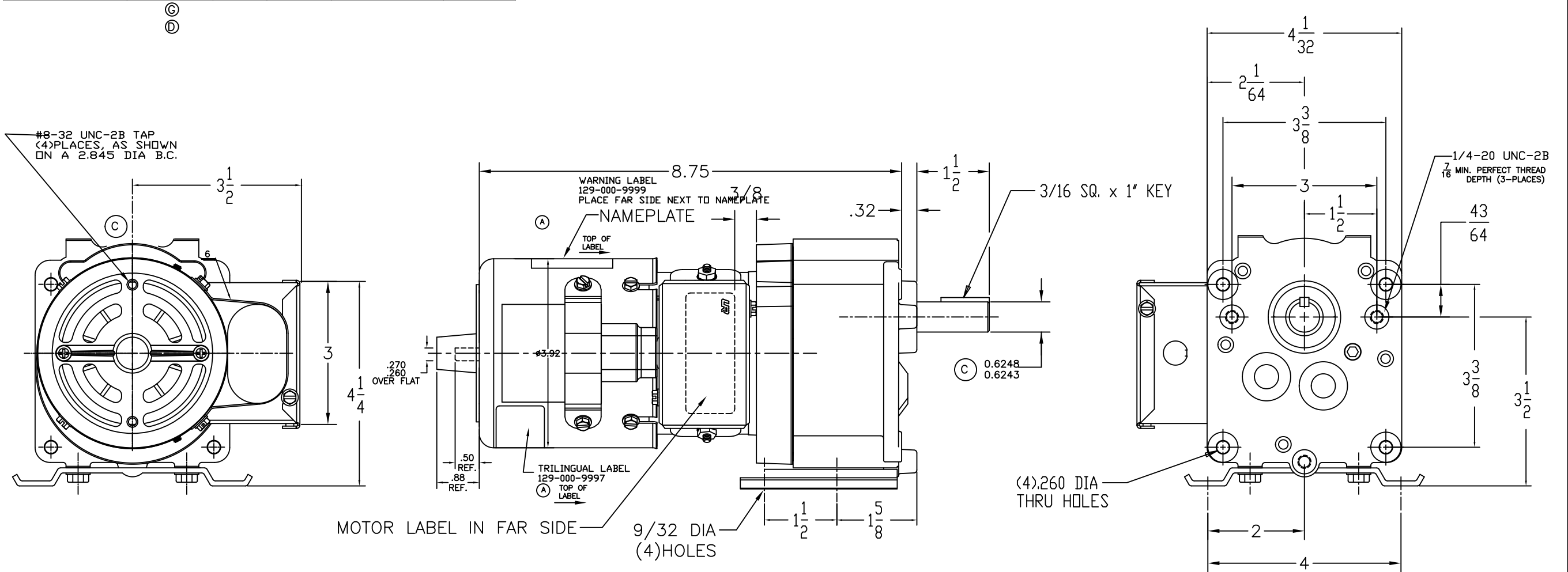


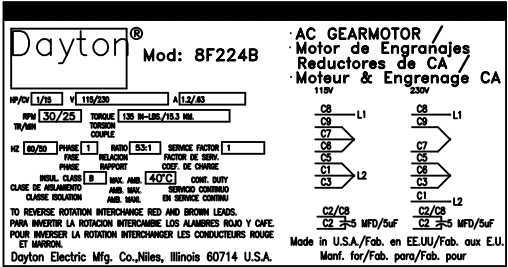
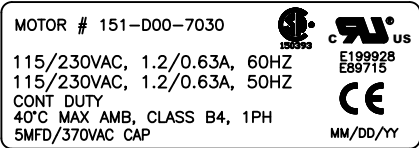
| BISON P/N    | WWG P/N | RATIO  | RPM     | TORQUE<br>IN-LB / NM. | ROTATION |
|--------------|---------|--------|---------|-----------------------|----------|
| 019-200-8012 | 4Z523C  | 11.5:1 | 139/116 | 30 / 3.4              | CW       |
| 019-200-8017 | 4Z522C  | 16.5:1 | 97/81   | 43 / 4.9              |          |
| 019-200-8023 | 4Z521C  | 23:1   | 70/58   | 61 / 6.9              |          |
| 019-200-8035 | 4Z520C  | 35:1   | 45/37.5 | 92 / 10.4             |          |
| 019-200-8053 | 4Z519C  | 53:1   | 30/25   | 135 / 15.3            |          |
| 019-200-8253 |         |        |         |                       |          |
| 019-200-8153 | 8F224B  |        |         |                       |          |
| 019-200-8108 | 4Z518D  | 107:1  | 15/12.5 | 202 / 22.8            | CCW      |

NOTE:  
019-200-8253 FOR BULK PACKAGE  
019-200-8153 GREASE LUBRICATION

| NO DEVIATION PERMITTED WITHOUT ENG. DEPT. APPROVAL |      |                                                               |     |         |
|----------------------------------------------------|------|---------------------------------------------------------------|-----|---------|
| ECN NO.                                            | REV. | DESCRIPTION                                                   | BY  | DATE    |
| 11979                                              |      | NEW DWG.                                                      | LW  | 030107  |
| 12082                                              | A    | ADD PLACEMENT FOR WARNING/TRILINGUAL LABELS                   | FW  | 4/5/07  |
| 12533                                              | B    | UPDATED NAMEPLATES W/UL                                       | ND  | 27DEC07 |
| 14684                                              | C    | ADDED SHAFT OD TOLERANCE<br>ROTATED BRAKE 90°                 | SDM | 13MAY08 |
| 15921                                              | D    | ADDED MOTOR NO. AND CE MARK<br>TO LABEL, WWG PART NO. C WAS B | MLF | 06DEC10 |
| 16771                                              | E    | ADDED CE MARK ON MOTOR LABEL                                  | ST  | 13JUL11 |
| 17025                                              | F    | WAS E47475                                                    | ND  | 23NOV11 |
| 18199                                              | G    | WAS 4Z518C (RATTLE PROBLEM)                                   | ND  | 23NOV11 |
| 18521                                              | H    | ADDED TEST TOOLING TABLE                                      | CK  | 06AUG14 |
| 18533                                              | J    | ADDED CSA LOGO TO MOTOR LABEL                                 | RWB | 23APR15 |



NAMEPLATE FOR UNITS  
DATA SEE ABOVE



NAMEPLATE 129-200-8153 FOR  
UNIT 019-200-8153

| TEST TOOLING REQUIREMENTS |               |
|---------------------------|---------------|
| COUPLING                  | T-2098H       |
| FIXTURE                   | 200 FOOTPLATE |
| WIRE HARNESS              | XXXXX         |
| SWITCH BOX                | 115VAC        |

| BISON                                                                                                  |  | MATERIAL                                                                                                                                                                                                          | REMOVE ALL BURRS AND SHARP CORNERS. DO NOT SCALE DRAWING.        |
|--------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Gear & Engineering Corp.<br>3850 Ohio Avenue<br>St. Charles, IL 60174<br>630-377-4327 FAX 630-377-6777 |  | UNLESS OTHERWISE SPECIFIED<br>TOLERANCE TO BE:<br>ALL FRACTIONS +/- .015<br>ALL TWO PLACE DECIMAL +/- .010<br>ALL THREE PLACE DECIMAL +/- .005<br>CONCENTRICITY .005 T.I.R.<br>SQUARENESS .001 T.I.R./IN. OF DIA. | SCALE FULL.<br>DRN. BY LW DATE 3/1/07<br>CKD. BY DATE<br>APPRVD. |
| DESCRIPTION<br>ASSEMBLY DWG. FOR WWG                                                                   |  | D 100-200-8000                                                                                                                                                                                                    | REV. J                                                           |
| SHEET 1                                                                                                |  | SHEETS 1                                                                                                                                                                                                          |                                                                  |