



Bearing No. 2222 K

|                  |                                              |
|------------------|----------------------------------------------|
| D                | 200 mm                                       |
| d                | 110 mm                                       |
| B                | 53 mm                                        |
| Bore             | 4.331 Inch   110 Millimeter                  |
| Noun             | Bearing                                      |
| UNSPSC           | 31171532                                     |
| Category         | Self Aligning Ball Bearings                  |
| Size (mm)        | 200x110x53                                   |
| Enclosure        | Open                                         |
| Inventory        | 0.0                                          |
| Width (mm)       | 53                                           |
| Mass bearing     | 6.8 kg                                       |
| Weight / LBS     | 15.909                                       |
| Inch - Metric    | Metric                                       |
| Product Group    | B00152                                       |
| Cage Material    | Steel                                        |
| d <sub>1</sub>   | 138.5 mm                                     |
| D <sub>1</sub>   | 174.3 mm                                     |
| Bearing number   | 2222 K                                       |
| Keyword String   | Self Aligning                                |
| Limiting speed   | 4300 r/min                                   |
| Other Features   | Allowable Misalignment<br>3 Deg   1:12 Taper |
| Adapter Sleeve   | H-322                                        |
| Mounting Method  | Tapered Adapter                              |
| Precision Class  | ABEC 1   ISO P0                              |
| Rolling Element  | Ball Bearing                                 |
| Reference speed  | 6000 r/min                                   |
| Long Description | 110MM Bore; Tapered                          |

|                             |                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                             | Adapter Mount; 200MM<br>Outside Diameter;<br>53MM Inner Race<br>Width; 53MM Outer<br>Race Width; Open; Steel<br>Cage; Double Row of<br>Balls; ABEC 1   ISO P0;<br>C0-Medium |
| Outside Diameter            | 7.874 Inch   200<br>Millimeter                                                                                                                                              |
| Outer Race Width            | 2.087 Inch   53<br>Millimeter                                                                                                                                               |
| Inner Race Width            | 2.087 Inch   53<br>Millimeter                                                                                                                                               |
| Manufacturer URL            | <a href="http://www.skf.com">http://www.skf.com</a>                                                                                                                         |
| Weight / Kilogram           | 7.216                                                                                                                                                                       |
| Manufacturer Name           | SKF                                                                                                                                                                         |
| $r_a$ max.                  | 2 mm                                                                                                                                                                        |
| $D_a$ max.                  | 188 mm                                                                                                                                                                      |
| Bore Diameter (mm)          | 200                                                                                                                                                                         |
| Internal Clearance          | C0-Medium                                                                                                                                                                   |
| Outer Diameter (mm)         | 110                                                                                                                                                                         |
| $D_a$ - max.                | 188 mm                                                                                                                                                                      |
| Calculation factor e        | 0.28                                                                                                                                                                        |
| Minimum Buy Quantity        | N/A                                                                                                                                                                         |
| $r_a$ - max.                | 2 mm                                                                                                                                                                        |
| $r_{1,2}$ min.              | 2.1 mm                                                                                                                                                                      |
| $D_1$ ?                     | 174.3 mm                                                                                                                                                                    |
| $d_1$ ?                     | 138.5 mm                                                                                                                                                                    |
| $r_{1,2}$ - min.            | 2.1 mm                                                                                                                                                                      |
| Harmonized Tariff Code      | 8482.10.50.68                                                                                                                                                               |
| Calculation factor - e      | 0.28                                                                                                                                                                        |
| Number of Rows of Balls     | Double Row                                                                                                                                                                  |
| Manufacturer Item<br>Number | 2222 K                                                                                                                                                                      |
| Basic dynamic load          | 124 kN                                                                                                                                                                      |

|                                    |         |
|------------------------------------|---------|
| rating C                           |         |
| Basic dynamic load rating - C      | 124 kN  |
| Fatigue load limit $P_u$           | 2.12 kN |
| Calculation factor $k_r$           | 0.04    |
| Calculation factor $Y_0$           | 2.5     |
| Calculation factor $Y_1$           | 2.2     |
| Calculation factor $Y_2$           | 3.5     |
| Calculation factor - $Y_1$         | 2.2     |
| Calculation factor - $Y_2$         | 3.5     |
| Calculation factor - $k_r$         | 0.04    |
| Fatigue load limit - $P_u$         | 2.1 kN  |
| Calculation factor - $Y_0$         | 2.5     |
| Permissible angular misalignment ? | 2.5 °   |
| Basic static load rating $C_0$     | 52 kN   |
| Basic static load rating - $C_0$   | 52 kN   |